Charles Costarella, Associate Teaching Professor
School of Engineering and Technology, University of Washington Tacoma
Cherry Parkes CP-215, Tel: (253) 692-5980
costarec@uw.edu

Teaching Experience
Present Position
Sep. 2013 to present: Associate Teaching Professor in following programs:
>   Bachelor of Science in Information Technology (BSIT),
>   Masters of Science in Information Technology (MSIT), proposed,
>   Masters of Cybersecurity and Leadership (MCL),

at the School of Engineering and Technology (SET), University of Washington Tacoma. Delivery of undergraduate courses in Networking, Routing and Switching, System Administration, and Programming (C# .NET and ASP.NET). I teach Cybersecurity Incident Response and Network and Internet Security in the Masters of Cybersecurity and Leadership Program, a Masters program split between SET and the Milgard Business School. I serve as a faculty advisor for undergraduate reading and research projects, as well as for student industry internships.

My research areas of interest are network and web application security, honeypots, honeynets, and hardening honeynets against botnets.

Service to the University of Washington Tacoma
- **Tri-Campus Adjudication Committee** – Joined the Adjudication Committee to arbitrate University/faculty disputes (2020-2023)
- **Dir of Libraries, UW Tacoma** search committee - I served on the search committee for the Director of the Libraries (and Associate Dean) at UW Tacoma (2020-21).
- **Executive Council** - Faculty representative for SET on UW Tacoma's Executive Council (2014-2020)
- **GrayHat advisor** - Faculty advisor to the campus GrayHat Computer Security Group (2015-present)
- **SET Dean search committee** - I served on the search committee for hiring the founding Dean of the School of Engineering and Technology (2016-17)
- **Mobile Digital Forensics series** - Along with Det. John Bair of Tacoma PD, a recognized expert in his field, I helped to develop the curriculum and design course delivery for TINFO 444, 445, and 446. This is a 3-course series in Mobile Digital Forensics.
- **ITNL lab** - Worked with other faculty to establish the ITNL (Information Technology Networking Lab) routing and switching lab to support the Networking, Cybersecurity, System Administration, and Routing and Switching courses taught in the BSIT and MCL programs. (with generous donations from Cisco, Boeing, and the United States Navy)
- **CyberRange lab** - Combining my interests in C#, .NET, security, and GrayHat hacking, I am currently working with other faculty and staff on developing virtualization and cloud computing knowlege to integrate teaching these topics into the IT and MCL programs (current in progress)

June 2013 to Aug. 2013: Adjunct Faculty, Computer Science
Highline Community College, Des Moines, WA
Delivery of CSCI 100, Survey of Computing. Course covers a general survey of current hardware, software, systems software, and network technologies. Includes an introduction to programming, logic, and problem solving.

Aug. 1999 to June 2011: Adjunct Faculty, Computer Information Science
Antelope Valley College, Lancaster, CA
Design and delivery of CIS-111, Introduction to Programming and Algorithms (I've delivered this course in Java, Pascal, Basic, and C), a first semester (CS1) course w/lecture and lab. Design and delivery of CIS-113, Data Structures, a second semester (CS2) programming course w/lecture and lab (I've taught this course in Java and C++). I have also taught Beginning and Advanced Word Processing courses (using Microsoft Word). One Summer session at AV College, I taught a section of "The History of Rock and Roll" in the Music Department.

Courses Taught

University of Washington Tacoma

Spring 2022

> **TINFO 452 A – Windows System Administration**
> **TINFO 498 – Directed Readings (advising 2 students)**
> *Advanced Networking*
> Nguyen, Steven – CCNA3v7 R&S, Enterprise Networking, Security, and Automation
> Yahya, Mirzaei – CCNA3v7 R&S, Enterprise Networking, Security, and Automation

Winter 2022

> **TINFO 200 A – Programming II for ITS (C# .NET)**
> **TINFO 200 B – Programming II for ITS (C# .NET)**
> **TINFO 200 C – Programming II for ITS (C# .NET)**
> **TINFO 498 – Directed Readings (advising 1 students)**
> *Advanced Networking*
> Androussenko, Daniel – CCNA3v7 R&S, Enterprise Networking, Security, and Automation

Autumn 2021

> **TINFO 250 B – Foundations of Information Networking**
> **TINFO 250 C – Foundations of Information Networking**
> **TINFO 451 A – Routing and Switching**
> **TINFO 498 – Directed Readings (advising 1 students)**
> *Advanced Networking*
> Wang, Bo – EIGRP and OSPF dynamic routing protocols

Summer 2021

> **TCSL 550 A – Network and Internet Security**
> **TINFO 452 A – Windows System Administration**

Spring 2021

> **TINFO 452 A – Windows System Administration**
> **TINFO 498 – Directed Readings (advising 2 students)**
> *Advanced Networking*
> Haret, Faisal – CCNA3v7 R&S, Enterprise Networking, Security, and Automation
> Wang, Bo – CCNA3v7 R&S, Enterprise Networking, Security, and Automation

Winter 2021

> **TINFO 200 A – Programming II for ITS (C# .NET)**

TINFO 200 B – Programming II for ITS (C# .NET)
TINFO 200 C – Programming II for ITS (C# .NET)
TINFO 498 – Directed Readings (advising 5 students)
Advanced Networking
Abdullahi, Mansur – CCNA3v7 R&S, Enterprise Networking, Security, and Automation
Dang, Huy – CCNA3v7 R&S, Enterprise Networking, Security, and Automation
Issa, Hassan – CCNA3v7 R&S, Enterprise Networking, Security, and Automation
Martinez, Juan S. – CCNA3v7 R&S, Enterprise Networking, Security, and Automation
Muhebullah, Muheb – CCNA3v7 R&S, Enterprise Networking, Security, and Automation

Autumn 2020
TINFO 250 B – Foundations of Information Networking
TINFO 250 C – Foundations of Information Networking
TINFO 451 A – Routing and Switching

Summer 2020
TCSL 550 A – Network and Internet Security
TINFO 452 A – Windows System Administration

Spring 2020
TINFO 452 A – System Administration
TINFO 498 – Directed Readings (serving as instructor for 3 students)
Advanced Networking
Casteen, Andrew – CCNA3v7 R&S, Enterprise Networking, Security, and Automation
Steinbrugge, Jacob – CCNA3v7 R&S, Enterprise Networking, Security, and Automation
Kakkada, Tho – CCNA3v7 R&S, Enterprise Networking, Security, and Automation

Winter 2020
TINFO 200 A – Programming II for ITS (C# .NET)
TINFO 200 B – Programming II for ITS (C# .NET)
TINFO 200 C – Programming II for ITS (C# .NET)
TINFO 498 – Directed Readings (served as instructor for 8 students)
Advanced Networking
Abucar, Fahad Aweis, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Ali, Elmi, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Dowdle, Richard, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Nasawang, Derek Jew, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Park, Ki Tae, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Pinyapap, Rasapon, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Steinbrugge, Jacob, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Williamds, Patrick, 5 credits - CCNA3 Scaling Networks (in NetAcad)

Autumn 2019
TINFO 250 B – Foundations of Information Networking
TINFO 250 C – Foundations of Information Networking
TINFO 451 A – Routing and Switching
TINFO 498 – Directed Readings (served as instructor for 3 students)
Abuassi, William Socrates, 5 credits – CCNA3 Scaling Networks (NetAcad)
Smith, Michael, 5 credits – CCNA3 Scaling Networks (NetAcad)
Lam, T, 5 credits – CCNA3 Scaling Networks (NetAcad)
Turner, Trevor, 5 credits – CCNA3 Scaling Networks (NetAcad)

Summer 2019
TINFO 431 A – Server Side Web Applications

TINFO 452 A – System Administration

Spring 2019

TINFO 452 A – System Administration

TCSL 530 – Cybersecurity Strategies

TINFO 498 – Directed Readings (serving as instructor for 1 student)

Advanced Networking

Thompson, Bryant, 5 credits – CCNA3 R&S, and Scaling Networks w/NetAcad

Winter 2019

TINFO 200 A – Programming II for ITS (C# .NET)

TINFO 200 B – Programming II for ITS (C# .NET)

TINFO 200 C – Programming II for ITS (C# .NET)

TINFO 498 – Directed Readings (served as faculty advisor for 2 students)

Advanced Networking

Campbell, Caleb Evan, 5 credits - CCNA3 Scaling Networks (in NetAcad)

Velasco, Clint Steven, 5 credits - CCNA3 Scaling Networks (in NetAcad)

Autumn 2018

TINFO 250 B – Foundations of Information Networking

TINFO 250 C – Foundations of Information Networking

TINFO 451 A – Routing and Switching

TINFO 498 – Directed Readings (served as instructor for 2 students)

Mangual Velazquez, Argenis, 5 credits – ASP.NET Core MVC 2

Tueax-Leffel, Laurie Ann, 5 credits – ASP.NET Core MVC 2

Summer 2018

TINFO 452 A – System Administration

TINFO 497 – Internship (serving as faculty advisor for 4 students)

Eldridge, Cameron J, IT Senior

Mohamed, Saaid Bashir, IT Senior

Singh, Navi, IT Senior

VanWinkle, Jonathan Mark, IT Senior

Spring 2018

TINFO 452 A – System Administration

TCSL 530 – Cybersecurity Strategies

TINFO 497 – Internship (serving as faculty advisor for 2 students)

Sheikh Tijan Jobe, IT Senior

Soobin Kim, IT Senior

TINFO 498 – Directed Readings (advising 11 students in 4 areas of study)

Server Side Web Dev

Hailemariam, Metasebiya, 5 credits – ASP.NET Core MVC Server Side Web Applications

Hamid, Seham, 5 credits – ASP.NET Core MVC Server Side Web Applications

.NET Core Dev

Hamid, Yusuf, 5 credits – C# .NET Data Structures

Amazon EC2 Elastic Cloud (AWS System Architect)

Hassan, Amin, 5 credits – Amazon EC2 Certified Systems Architect Exam prep

Hassan, Amin, 5 credits – Amazon EC2 Cloud Computing Foundations

Mohamed, Fatuma D, 5 credits – Amazon EC2 Certified Systems Architect Exam prep

Mohamed, Mohamed F, 5 credits – Amazon EC2 Cloud Computing Foundations

Advanced Networking

Howell, Aaron J, 5 credits – CCNA4 Connecting Networks w/NetAcad

Hubble, Dillon Patrick, 5 credits – CCNA4 Connecting Networks w/NetAcad
Nguyen, Duy Luan Thanh, 2 credits, – CCNA4 Connecting Networks w/NetAcad
Perumal, Rahul 5 credits, – CCNA4 Connecting Networks w/NetAcad
Williams, Kyle D, 5 credits – CCNA4 Connecting Networks w/NetAcad
TINFO 499 – Directed Research (serving as instructor for 1 student)
Mohamed Mohamed F. – Amazon EC2 Certified Systems Architect Exam prep

Winter 2018
TINFO 200 B – Programming II for ITS (C# .NET)
TINFO 200 C – Programming II for ITS (C# .NET)
TINFO 431 A – Server Side Web Applications (ASP.NET MVC and ASP.NET Core 2.0)
TINFO 497 – Internship (served as faculty advisor for 5 students)
Jones, Zachery Michael
Kang, Baldeep Singh
Kwong, Jason Sai Kit
Nguyen, Duy Luan Thanh
Rogers, Nathaniel David
TINFO 498 – Directed Readings (served as faculty advisor for 13 students in 1 area)
Advanced Networking
Chopovdya, Eugene V, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Ghura, Bikramjeet Singh Yashwinder, 3 credits - CCNA3 Scaling Networks (in NetAcad)
Grewal, Harkaran Singh, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Hubble, Dillon Patrick, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Jobe, Sheikh Tijan, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Jones, Zackary Michael, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Nguyen, Duy Luan Thanh, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Perumal, Rahul, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Santoyo, Matthew John, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Sun, Henry P, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Vanwinkle, Jonathan Mark, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Widger, Thomas P, 5 credits - CCNA3 Scaling Networks (in NetAcad)
Williams, Kyle D, 5 credits - CCNA3 Scaling Networks (in NetAcad)

Autumn 2017
TINFO 250 A – Foundations of Information Networking
TINFO 250 B – Foundations of Information Networking
TINFO 451 A – Routing and Switching
TINFO 497 – Internship (serving as faculty advisor for 3 students)
Busa, Praful, 5 units- IT Senior
Perumal, Rahul, 5 credtis, IT Senior
Stiver, Jordan J, 5 credits, IT Senior
TINFO 498 – Directed Readings (served as instructor for 2 students)
Boenisch, Anne Kristine, 5 credits – CCNA2 Routing and Switching (military)
Rogers, Nathaniel David, 5 credits – CCNA3 Connecting Networks (military)

Summer 2017
TINFO 452 A – System Administration
TCSS 143 A – Fundamentals of Object Oriented Programming
TINFO 497 – Internship (serving as faculty advisor for 4 students)
Dixon, Everett, 5 units- IT Senior

Fulcer, Joshua Dean, 5 credtis, IT Senior
Singh, Charhat, 5 credits, IT Senior
Vong, Sinh Cun, 5 credits, IT Senior
TINFO 498 – Directed Readings (served as instructor for 2 students)
Fulcer, Joshua Dean, 5 credits – CCNA3 Scaling Networks (in NetAcad)
Hwang, Sze Yan, 5 credits – CCNA3 Scaling Networks (in NetAcad)
TINFO 499 – Directed Research (served as instructor for 1 student)
White, David, 5 credits – CCNA4 Connecting Networks (in NetAcad)

Spring 2017

TINFO 452 A – System Administration
TINFO 497 – Internship (serving as faculty advisor for 12 students)
Asha Isaac
Chala Kabira
Steven Luther
Cole Michaud
Huy Nguyen
Denis Omimbi
Liudmilla Palachuk
Melanie Randall
Kishan Vekaria
Sinh Vong
Ibrahim Wehlie
Zhongming Yu
TINFO 498 – Directed Readings (5)
Daniel Bayless – CCNA2 Routing and Switching Essentials
Ethan Pham – CCNA4 Connecting Networks
Melanie Randall – ASP.NET MVC Web Development
Brad Sanders – CCNA4 Connecting Networks
Elliott Temple – Network+ Certification prep

Winter 2017

TINFO 200 B – Programming II for ITS (C# .NET)
TINFO 200 C – Programming II for ITS (C# .NET)
TINFO 431 A – Server Side Web Applications (ASP.NET MVC 5)
TINFO 497 – Internship (serving as faculty advisor for 3)
Logan Klashorst
Javaughn Lewis
Anthony Rockafield
TINFO 498 – Directed Readings (15)
John Angiono – CCNA3, Scaling Networks w/NetAcad
Jimmy Cheng – CCNA3, Scaling Networks w/NetAcad
Sean Cresse – CCNA3, Scaling Networks w/NetAcad
Everett Dixson – CCNA3, Scaling Networks w/NetAcad
Virgilio Garcia – CCNA3, Scaling Networks w/NetAcad
Tracie Huynh – CCNA3, Scaling Networks w/NetAcad
Danielle Jarecki – CCNA3, Scaling Networks w/NetAcad
Kenny Kim – CCNA3, Scaling Networks w/NetAcad
Koby Nguyen – CCNA3, Scaling Networks w/NetAcad
Denis Omimbi – CCNA3, Scaling Networks w/NetAcad

Ethan Pham – CCNA3, Scaling Networks w/NetAcad
Anthony Rockafield – CCNA3, Scaling Networks w/NetAcad
Brad Sanders – CCNA3, Scaling Networks w/NetAcad
Noah Son – CCNA3, Scaling Networks w/NetAcad
David White – CCNA3, Scaling Networks w/NetAcad

Autumn 2016

TINFO 250 A – Foundations of Information Networking
TINFO 250 B – Foundations of Information Networking
TINFO 451 A – Routing and Switching
TINFO 497 – Internship (serving as faculty advisor for 11)
John Angiono
Don Batten
Tyler Busha
Seth Coad-Douglass
Brandon Evans
Andrew Groff
Javaughn Lewis
Ethan Pham
Frederick Proctor
Harpreet Singh
Prabhjot Singh
TINFO 498 – Directed Readings (1)
Lessi Coulibaly – MCSA 70-410, 70-411, 70-412 prep

Summer 2016

TINFO 452 A – System Administration
TCSS 143 A – Fundamentals of Object Oriented Programming
TINFO 497 – Internship (serving as faculty advisor for 6)
Don Batten
Seth Coad-Douglass
Tracie Huynh
Taylor Lloyd
Harjaap Sandhu
Harpreet Singh
TCSS 498 – Readings in CSS
Sophie Nop

Spring 2016

TINFO 452 A – System Administration
TCSS 101 – Computer Science Principles
TINFO 497 – Internship (serving as faculty advisor for 12)
Humzah Abdol
Ahmed Ali
Brian Bui
Chance Cookston
David Dorch
Sameer Hakimi
Kuncil Jamal
Mike McCormick
Siddharth Saini

Jason Sexton

Amandeep Shergill

Igor Tekmenzhi

TINFO 498 – Directed Readings (9)

Mark Garces – Advanced JavaScript

Alejandro Garcia Ochoa – Advanced JavaScript

Trenton Lawton – Advanced JavaScript

Senan Loukman – Advanced JavaScript

Zakariya Mohamed – Advanced JavaScript

Su Park – Advanced C# (concurrency, OO, .NET)

Siddharth Saini – SQL Server programming w/.NET and Entity Framework

Jason Sexton – CCNA3, Scaling Networks w/NetAcad

Sabeen Tahir – Advanced JavaScript

Winter 2016

TINFO 200 A– Programming II for ITS (C# .NET)

TINFO 200 B – Programming II for ITS (C# .NET)

TINFO 431 A – Server Side Web Applications (ASP.NET MVC 5)

TINFO 497 – Internship (serving as faculty advisor for 8)

David Dorch

Alejandro Garcia Ochoa

Sameer Hakimi

Trenton Lawton

Mike McCormick

Siddharth Saini

Amandeep Shergill

Adam Voelker

TINFO 498 – Directed Readings (7)

Ahmed Ali – CCNA3, Scaling Networks w/NetAcad

Jason Erickson – CCNA3, Scaling Networks w/NetAcad

Brandon Evans – CCNA3, Scaling Networks w/NetAcad

Mark Garces – CCNA3, Scaling Networks w/NetAcad

Osaseen Gollen – Information Assurance, Business Management Topics

Senan Loukman – CCNA3, Scaling Networks w/NetAcad

Alexandro Maldonado – System Administration, Windows Server and RHEL

Autumn 2015

TINFO 250 A – Foundations of Information Networking

TINFO 250 B – Foundations of Information Networking

TINFO 451 A – Routing and Swtiching

TINFO 497 – Internship (serving as faculty advisor)

Erika Baker – C#, ASP.NET MVC 5

Teodorico Divina - ASP.NET MVC 5

Jason Erickson – Network and Sysadmin, UW Tacoma

Trenton Lawton – Web design and Server Side Web Programming

Alexandro Maldonado – Database programming and server side web

Igor Tekmenzhi – Database programming and server side web

TINFO 498 – Directed Readings

Duke Hefner – System Administration, MCSA Windows Server and Linux+ prep

Summer 2015

TINFO 451 A – Routing and Switching
TINFO 497 – Internship
Sumitpal Rai – Network security

Spring 2015
TINFO 452 A – System Administration
TCSS 600 – Independent Study or Research
Swathika Balasundaram – Mobile Android Development w/GIS
TINFO 497 - Internship
Anitoliy Gritsenko
Myong Kim
Earl Switzer
TINFO 498 – Directed Readings
Sam Kim – ASP.Net MVC 5 Facebook app
Earl Switzer – System Administration topics

Winter 2015
TINFO 200 A– Programming II for ITS (C# .NET)
TINFO 200 B – Programming II for ITS (C# .NET)
TINFO 431 A – Server Side Web Applications (ASP.NET MVC 5)
TINFO 497 - Internship
Iatkit Ho
Scott Shaffer

Autumn 2014
TINFO 250 A – Foundations of Information Networking
TINFO 250 B – Foundations of Information Networking
TINFO 451 A – Routing and Swtiching
TINFO 498 – Directed Readings
Blake McIntyre – Windows Share Point
TINFO 499 - Undergraduate Research
Blake McIntyre – MS SQL Server
Joon Choi - ASP.Net MVC 5, security, dependency injection, TDD
JeeUn Yoo - ASP.Net MVC 5, security, dependency injection, TDD
Charles Fraychineaud – Designing CCNA Routing and Switching lab exercises

Summer 2014
TCSS 143 A – Fundamentals of Object Oriented Programming Theory and Application
TCSS 498 - Directed Readings in Computing and Software Systems
Khoi Le – Port Tetris game from Java to C# and also Python
TINFO 498 – Directed Readings
Joon Choi - ASP.Net MVC 5, build web site
JeeUn Yoo - ASP.Net MVC 5, build web site
Himchan Han – Network security topics
Iatkit Ho – Network security topics
Janet Kim – Network security topics
Lloyd Thomas – Network security topics

Spring 2014
TINFO 452 A – System Administration
TINFO 443 A – Digital Forensics (Mobile Digital Forensics)
TINFO 498 – Directed Readings

Charles Fraychineaud – Network and System Administration Lab Exercises

Winter 2014

       TINFO 200 A– Programming II for ITS (C# .NET)

       TINFO 200 B – Programming II for ITS (C# .NET)

       TINFO 503 A – Designing and Executing Information Assurance and Cyber Security Strategies

Autumn 2013

       TINFO 250 A – Foundations of Information Networking

       TINFO 250 B – Foundations of Information Networking

       TINFO 451 A – Routing and Swtiching

Summary of previous teaching, prior to joining faculty at UW Tacoma:

Summer 2013

Highline College, CSCI 100 – Survey of Computing (taught Summer 2013)

Fall 1999 through Spring 2011

Antelope Valley College

CIS 111 – Intro to Programming and Algorithms

(sections taught each Fall and each Spring semester from Fall 1999 through Spring 2011)

CIS 113 – Data Structures

(taught each Spring semester from 2005 through 2011)

CA 111 – Word Processing

(taught Fall 2009, Fall 2010)

CA 113 – Advanced Microsoft Word

(taught Fall 2010)

Education and Certifications

MSCSS Master of Science in Computer Science and Systems
University of Washington Tacoma, June 2013
Recipient NSF/SFS Scholarship for Service, Specialization in Cybersecurity
> *Research topic for Masters Capstone Project is "Hardening Honeynets against Honeypot-aware Botnet Attacks". This project uses extensive virtualization technology for all servers, hosts, guests, and routers as well as honeypot, botnet, and command & control nodes. Other research areas are securing critical infrastructure ICS and SCADA systems, and integrating secure coding practices into the traditional computer science curriculum.*

Network Engineering Certificate, University of Washington Professional and Continuing Education, 1 year certificate program completed June 2013.

ISRM Certificate in Information Assurance Risk Management, received from University of Washington iSchool, Seattle, Washington, received June 2012

Certification from NSA/DHS Center for Information Assurance and Cybersecurity, compliant with CNSS 4011 (INFOSEC) and 4012 (Senior Systems Managers), received June 2012

BS CS, Bachelor of Science in Computer Science
Chapman University, Edwards Air Force Base, California, August 1999

Cerro Coso Community College, Ridgecrest, California (online only)
Fall 1998 to Spring 1999, No degree

A.S., Associate of Science, Computer Programming, and Computer Programming Certificate
Antelope Valley College, Lancaster, California, May 1997

University of Southern California, Los Angeles, California
Fall 1979 to Spring 1982
Major: Music, Studio Guitar Performance, No degree

University of California, Los Angeles
Fall 1977 (1 quarter only)
Major: Music, Guitar Performance, No degree

Antelope Valley College, Lancaster, California
Fall 1976 to Spring 1979
Major: General Education, No degree

Research Published

Charles Costarella, Sam Chung, and Barbara Endicott-Popovsky, *Hardening Honeynets against Honeypot-Aware Botnet Attacks*, International Conference on Cloud Security Management (ICCSM 2015), University of Washington Tacoma, USA, October 2015.

Professional and Business Experience

Sep. 2012 – March 2013: Information Assurance Intern, City of Seattle Washington. I reported

directly to the CISO, Michael Hamilton. Tasks included daily network monitoring, incident response, and digital forensics investigations of internal and external attacks and misuse of municipal resources. Responsibilities included monitoring FireEye, Websense, F.R.E.D. forensics platform using FTK Toolkit, and misc. digital forensic software tools and procedures. I gave regular periodic briefings and reports on monitoring and investigation activities to the CISO.

Sep. 2001 – June 2013: CEO and CFO of Bronze Bunz Inc, a California S Corporation based in Palmdale, CA (DBA Bronze Bunz Tanning) with stores in Lancaster, CA and Palmdale, CA. Operational day to day management of a 2 store chain of tanning salons. Founded by my wife and myself in September 2001, we grew this business from a single location with 5 tanning units to our current holdings which include 2 retail locations covering almost 5,000 sq. feet in the Lancaster/Palmdale area operating more than 35 pieces of tanning equipment and employing 15 to 20 employees depending on the season. We have achieved annual gross sales of over 1 million dollars and operated as many as 4 locations concurrently (2007-8). We sold the business in June 2013.

Feb. 2001 – Mar. 2002: Technical Consultant, Trintech Inc., San Mateo, CA
Development and customization of online financial transaction processing software. Windows C++/MFC and Java (Swing and JSP) development including Java Servlets, RMI, and JDBC for transaction server running on Solaris with an Oracle DB. I interfaced with customers to gather requirements, define specifications, and worked to achieve total customer satisfaction with a highly customizable product in a multi-cultural environment which included clients in Brazil, Korea, Europe and the US. Other Professional Services duties included installation, configuration, and documentation of OpenSSL to create and manage private keys and certificates, Apache Web Server (using mod_ssl for security), Jakarta Tomcat Application server for JSP pages and Java Servlets.

Jan. 2001: Java Corporate Trainer, Versata Inc., Oakland, CA
Design and delivery of professional training for Java developers using JSP and Java servlet technologies to create transaction based website utilizing the Versata Studio, a VB-like tool for creating transaction based websites.

Oct. 99 to Nov. 2000: Sr. Software Engineer, Ask Jeeves Inc., North Hollywood, CA
Java Enterprise J2EE development of client/server virtual help desk network applications suite. HTML/JSP and Java Applet versions of a live chat client application. Client modules interfaced with multiple server applications via Java Servlets. Development of signed Java applet and ActiveX control to manipulate client browsers. Ask Jeeves maintained a full test lab of client computers utilizing virtualization for multiple operating system test machines.

Apr. 97 to Oct. 99 (except for Jan. 98 to Apr. 98): Software Engineer,
Symvionics Inc., United States Air Force Flight Test Center, Edwards AFB, CA
Windows NT/Sun Solaris/SGI Irix parallel development of post flight test analysis tool. Development of user interface, data management, and analysis modules in C++ and Java on all three platforms. Additionally, I was in charge of writing software test descriptions for entire APTAS system deliverable to perform acceptance testing at the Initial Operating Requirements (IOC) deadline.

Jan. 98 to Apr. 98: Software Engineer

Symvionics Inc., United States Air Force Flight Test Center, Edwards AFB, CA
Windows NT development for USAF Flight Test Center Intranet. EDGE project was the
development of a corporate intranet for Air Force Flight Test Center 412 Test Wing. Included
was a training application for complete automation of the business process involved
in applying and undertaking training. Design and development of client/server web application
using Java, JavaScript, SQL, and HTML. Responsible for Netscape Enterprise Server admin and NT
Server admin including source code control. Also in charge of design and implementation of the
project's disaster recovery plan.

Oct. 97 to Dec. 97: Software Engineer
Century Computer Consultants, Overland Park, Kansas
Modification and maintenance of real time Customer Event Distributor system in C, C++, and
UNIX Shell script on IBM AIX platform for telecommunications customer World Com in Tulsa,
OK.

1995 to Apr. 97: Software Engineer
Symvionics Inc., United States Air Force Flight Test Center, Edwards AFB, CA
IADS project was NT/UNIX (SGI Irix) parallel development of real-time loads/flutter flight test
analysis system. User interface development using Win32 API and XWindows/Motif toolkits.
Microsoft Visual C++ for NT development and standard UNIX tools (shell script, vi, make, grep,
etc.) for SGI.

Computer Languages
C#, Java, C++, C, JavaScript, HTML, Unix Shell Script, Windows PowerShell, R, Ada, Pascal, QBasic,
FORTRAN
Languages Taught: C# .NET, Java, ASP.NET MVC, C++, Pascal, QBasic

Platforms/Operating Systems
Windows, SGI Irix, Sun Solaris, IBM AIX, various Linux (Debian, Ubuntu, Fedora, Kali, CentOS,
RHEL), Mac OS X, OpenBSD, cisco IOS

Libraries and APIs
.NET, Java SE, ME, and EE (Java Servlets, JSP, JDBC, RMI), JFC Swing, Win32 API, Microsoft MFC
C++ Class Library, XWindows/Motif, OpenGL, YACL (Chapman Univ. C++ lib)

Servers, Databases, IDEs, and RAD Development and Virtualization Tools
VMWare Workstation and Fusion, Oracle Virtual Box, Mac Bootcamp, NetBeans, Eclipse, Apache
Tomcat, Sun JavaWebServer, iPlanet (Netscape) Enterprise Server, Microsoft Developer Studio,
Visual Studio, Rational Rose, RapidApp (SGI), FaceMaker (XWindows/Motif), Versata Studio,
Oracle 8.1.x and 8i, IBM DB2, WebSphere, Microsoft SQL Server 2000, 2005, 2008

Citizenship
Born June 29, 1958 in Pasadena, California. I am a United States citizen and held a Department
of Defense secret level security clearance during my work at the United States Air Force Flight
Test Center 1995-1999.

Professional Organizations and Affiliations
Member of CTIN Computer Investigators, joined December 2012

Member of The Honeynet Project, Pacific Northwest Chapter, joined March 2012
Member of ISSA, Puget Sound Chapter, joined September 2011
Member of InfraGard, Seattle Chapter, joined September 2011
Member of The Agora, joined August 2011

Professional Training and Conferences
May 2017 – Cisco CCNA Routing and Switching, CCNA Security (renewal training)
September 2014 – Cisco NetAcad Certified Instructor for CCNA1, CCNA2, CCNA3, CCNA4
September 2014 – Training Camp, Dallas Texas, Cisco CCNA Routing and Switching, CCNA
Security, and CCENT certifications. 3 certifications earned.

March 2013 – CTIN Conference, Computer Technology Investigators Network, Seatac, WA.
Certificate earned.

February 2013 - CISSP Boot Camp and Exam from IP3, with Michael Hamilton, CISO, City of
Seattle. Training Certificate Issued. CISSP Exam planned June 2013.

February 2013 – DHS ICS-CERT, Industrial Control Systems Cybersecurity 301 Advanced Training,
Idaho National Laboratory, Idaho Falls, ID. Certificate Issued.

January 2013, and 2012 – National Science Foundation Scholarship for Service Cybersecurity
Conference and Job Fair, Washington DC

December 2012 – BSides Seattle, sponsored by Microsoft, IOActive, others, Seattle, Washington

September 2012 – Emerald Down, sponsored by PNWER (Pacific Northwest Economic Region)
Cyber Security Regional Response and Resiliency Seminar, Seattle Washington

July 2012 – DEFCON, Las Vegas, Nevada

April 2012 – Attended CISSP exam prep review (sponsored by ISSA, Puget Sound Chapter),
Mercer Island, Washington (plan to take the exam Mar 1, 2013)

March 2012 – Served as White Team judge at PRCCDC, Pacific Rim Collegiate Cyber Defense
Competition, Highline Community College, Washington

March 2012 – ICIW 2012, 7th International Conference on Information Warfare and Security,
University of Washington Seattle

March 2012 – The Honeynet Project Conference and Workshops, Palo Alto California
Workshops attended: Introduction to Honeynets and the Honeywall, David Watson

June 2006, 2005, and 1999 - JavaOne, Moscone Center, San Francisco, CA
Sun's Worldwide Java Programming Conference & Training

Jan. 2001 – Versata University, Versata Inc., Oakland, CA
Versata Studio 5.0 E-Business Automation System Training

Apr. 1997 - SmartSoft Internet Developer Training, Huntington Beach, CA
Intermediate & Advanced Java Programming

Nov. 1996 - SIGS C++ World, Dallas, TX
Object Oriented Programming Conference & Training

Feb. 1996 - Silicon Graphics Technical Education, On-site: Edwards AFB, CA
Real Time Programming Course

Feb. 1996 - Silicon Graphics Technical Education, On-site: Edwards AFB, CA
Parallel Programming Course

Jan. 1996 - Rational Software Corporation, On-site: Edwards AFB, CA
Object Oriented Methodology Course