ANKUR SURI

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Redmond, WA
206 953 8004

Experience in teaching various computer science and technical subjects
Experience in creating course map and course material
Experience in Hybrid and Online courses
Self-motivated team player with excellent analytical and problem solving skills
Experience in providing leadership combined with business analysis
Experienced in project and product management
Managed full lifecycle of projects/solutions
Managed deliverable's & schedules for business critical projects
Good interpersonal, teamwork and communication skills

Education

PMP (Project Management Practices) Certification
Master of Science in **Computer Science,** Louisiana State University, Dec'2005
Master of Science in **Mathematics,** IIT, New Delhi, India, Jul'1999

Research

Simulating Wireless Sensor Networks with OMNeT++, *Department of Computer Science, LSU.*
Developed a discrete-event simulation software for modeling large scale wireless sensor network. It is still
actively used at various universities for modeling & simulating large networks and to test various routing
algorithms to assess their topological, stabilization and scaling properties.
Technology Used: C++, omnet++

**Simulation Study for Wireless Sensor Networks and Load Sharing Routing Protocol to Increase Network
Life and Connectivity,** *Department of Computer Science, LSU.*LSU SensorSimulator is a framework for
simulating wireless sensor networks. It is a customizable and extensible simulator, which allows testing and
analyzing software for wireless sensor networks. The users can subclass the framework classes and
customize the behavior of various network layers. This subclassing gives a way to the developers an
opportunity to analyze and investigate, phenomenological, networking, robustness and scaling issues, to
explore arbitrary algorithms for distributed sensors, independent of hardware constraint. The results are
compared against the simulation results for ns-2 for routing protocols Directed Diffusion and GEAR.
Through the comparison of results for scalability, performance and memory utilization it is observed that
LSU SensorSimulator performs much better. Buddy load sharing routing protocol is a routing protocol which
can be combined with any geographically aware routing protocol to increase the network life and
connectivity. The performance of Buddy load sharing algorithm for network life, and it is found that for a
very negligible overhead the network life and connectivity and be improved by buddy load sharing.

Technology Used: C++, omnet++

Solving (Linear and Partial) Differential Equations using MQ method, *IIT, Delhi.* Implemented a
MultiQuadric (MQ) algorithm to solve linear or partial differential equations. The solution was used to verify
the validity of MQ method to solve partial & liner differential equations within an acceptable error factor.
Technology Used: FORTRAN

Publications

Simulating Wireless Sensor Networks with OMNeT++, *Department of Computer Science, LSU. Cited in
more than 75 research papers.*

Simulating Wireless Ecoinformatics using wireless sensor networks, *Ecological Informatics, Volume 1, Issue 3,November 2006, Pages 287–293, 4th International Conference on Ecological Informatics*

Courses Taught
- Java, J2EE
- Programming Languages
- Data Structures
- Algorithms and data structures.
- Numerical Methods
- Introduction to Programming
- Data Bases
- Java Script
- SCRUM and AGILE(Software Development Methodologies)
- SQL
- Testing methodologies and practices
- Professional Testing Methods
- Automated Testing
- HTML
- CSS
- Website development
- XML
- Mobile website development.
- Cloud and AWS.
- Project Management Practices
- Software Engineering

Books Authored
- Artificial Intelligence, Search Methods in PROLOG
- A* (AStar) in PROLOG
- Crypt-arithmetic Puzzles in PROLOG

Work Experience

Instructor - Bellevue College, Sept 2013 - Present
Working as an instructor at Bellevue College Continuing Education Department.
Devolved course material for one of the new course added by the Continuing Education Department.
Developed various lab exercises and quiz's.

Instructor – Renton Technical College, July'2013-Present
Instructor in the Technical Programs Department.
Developed course road map and course material.
Developed course material for hybrid class.
Developed various lab exercises.

Program Manager – TrideGlobal Inc, July'2011-Aug 2013

TrideGlobal offers service in Trading, Consulting and Risk Management

TrideGlobal Inc provides service in Trading, Asset & Risk Management. My responsibilities include:

- Conduct various training classes for new employees
- Developed training course material for the various classes
- Managed web assets (web/portal) for the organization
- Analyzed requirements, planned the sprint tasks and managed deliveries
- Helped designed data models
- Made changes to the existing design to improve performance
- Program Management

Technologies used: EC2, S3, ELB, HTML5, CSS, jQuery

Project Manager – Retail Inc, Feb'2010-Feb'2011
Retail Inc provides software service in In-Store Retail system management. My responsibilities include:

- Conduct various training classes for new employees
- Developed training course material for the various classes
- Program Management
- Analyzed requirements, designed the core functionality from presentation layer to business logic layer
- Captured the business requirements for the project
- Made changes to the existing design to improve performance
- Developed Integration and acceptance test cases

Technologies used: Java, JSP, Servlet, TIBCO, HTML, CSS, JavaScript, Oracle

Lead Analyst – Hydus Inc, June'2006-Apr'2007
Hydus offers software service in Retail and Supply Chain Management

Hydus Inc provides software service in In-Store Retail system management. My responsibilities include:
- Requirement and Scope Analysis – HEB has a huge & complex scope that was distilled to more generic requirements for the pilot phase
- Partnered with business stakeholders to simplify the process and identify the pain points
- Managed the development sprints – scoping, planning, scheduling the tasks with global teams
- Designed some of the core functionality in the middle tier
- Built common framework and ItemMaster layer
- Managed deliverables from the offsite teams and helped them to QA to validate the feature sets
- Developed Integration and acceptance test cases
- Helped to roll out the changes to 300+ HEB stores to handle 15B dollars of revenue

Technologies used: Java, JSP, Servlet, TIBCO, HTML, CSS, JavaScript, Oracle

Lead Analyst – Neubus Inc, Jan'2006-June'2006
Neubus offers software service in Business Content Management

Neubus Inc provides software services to manage large scale business content management solution for small/mid-size business. My responsibilities include:
- Captured the requirements for the large content management project release
- Modularized the features to plan and schedule tasks
- Managed the development sprints with a global team. Managed multiple roles as the situations demanded
- Completely redesigned the image retrieval and storage feature for the product for better throughput

- Managed deliverables from the offsite teams and helped them to QA to validate the feature sets
- Developed Integration and acceptance test cases
- Provided production support

Technologies used: Java, JSP, Servlet, HTML, CSS, JavaScript, Oracle

Teaching Assistant – Computer Science Department, LSU Jan'2004-Jan'2006
Department of Computer Science in Louisiana State University provides under grad, graduate and PHD programs
My responsibilities included:
- Assisting various computer science 1st year and 2nd year under grad classes
- Conduct office hours
- Evaluate assignments and exams

Technologies used: VB, MS Access, MS SQL Server, HTML

Team Lead, Tata Consultancy Services Ltd, India Aug'1999-Dec'2003
Tata Consultancy Service (TCS) is Asia's largest software consultancy. I worked with TCS to implement the pilot phase of a custom Supply Chain system for Indian Army. My responsibilities include:
- Conduct various training classes for new employees
- Developed training course material for the various classes
- Analyzed, designed and implemented one of the biggest EJB based project ever built
- Indian Army has a complex set of feature requirements and we had to improve the existing workflows for a better inventory movement
- Handled more than 3000 functional features
- Analyzed requirements to define the core feature sets & releases
- Developed user interfaces for forecasting, planning and procurement modules
- Designed the core platform layer on J2EE architecture when EJB, JSP and Servlet specifications were note very well defined by Sun Microsystems
- Rolled out new feature sets
- Managed product support & defect handling
- Led a team of two software engineers and managed their deliverables

Technologies used: Java, Swing, EJB, JNDI, Weblogic, Oracle, HTML

Teaching Assistant – Mathematics Department, IIT Delhi Aug'1997-May'1999
My responsibilities included:
- Assisting various computer science and mathematics 1st year and 2nd year under grad classes
- Conduct office hours
- Evaluate assignments and exams

References
Available on request