

Sumukha Tumkur Vani

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Education

- 2010 - 2014* **Bachelor of Engineering**
Major: Computer Science and Engineering
Bangalore University, India
Graduated with 83.8% [GPA: 3.67/4.0]
- 2008 - 2010* **Pre-University Course**
MES Pre-University College, Bangalore, India
2ndPUC 93%
- 2005 - 2008* **High School**
VVS Sardar Patel High School, Bangalore, India
SSLC 95.36%

Professional Experience

- 2014 - Present* **Software Developer**, *Oracle India Pvt Ltd*, Bangalore, India
Oracle Virtual Networking
 - Involved in developing of Infiniband Switches
 - Involved in building device drivers and system softwares for Solaris OS
 - Experience of coding in the SPARC environment
- 2013 - 2014* **Software Developer Intern**, *Streamoid Technologies*, Bangalore, India
 - Worked on Natural Language Processing tools
 - Designed and developed a search engine using Apache Solr
 - Implemented and analysed product recommendation systems
 - Built a performance and load testing system using Apache JMeter
- 2012 - 2013* **Software Developer Intern**, *Teritree Technologies*, Bangalore, India
 - Developed a database web application on the Amazon EC2
 - Developed an email application using the Amazon SES
 - Built an extension for the Google Chrome web browser

Technical Skills

- Programming* C, C++, Java, Python
Web HTML, PHP, Javascript
Database MySQL, MongoDB
Operating Systems Solaris, Linux, Windows

Awards and Honors

- Nov 2014* **Excellent Paper Award** and **Gold Medal** for the research paper titled “*DSWSD: Double Sliding Window for Secure Data Transmission in WSNs*”, at the International Conference of Science, Technology, Engineering and Management, Singapore.
- June 2014* **Best Under Graduate project** for “*Adaptive Load Balancing Protocol for Service Oriented Wireless Sensor Networks*”
- Dec 2013* Winner of SAP Lumira University Challenge 2013.
- Jan 2013* Held the **Collaboration Platform Lead** position in the Student Activities Committee for the year 2013-2014 in the IEEE Bangalore Section.

Publications

- Feb 2015* Lata B T, **Sumukha T V**, Suhas H, Tejaswi V, Shaila K, Venugopal K R, L M Patnaik “***SALB: Secure Adaptive Load Balancing in Service Oriented Wireless Sensor Networks***”, IEEE Signal Processing, Informatics, Communication and Energy Systems Conference Proceedings
- Nov 2014* Lata B T, **Sumukha T V**, Suhas H, Raghavendra M, Shaila K, Venugopal K R, L M Patnaik, “***DSWSD: Double Sliding Window for Secure Data Transmission in WSNs***”, International Journal of Computer Networking, Wireless and Mobile Communications (IJCNWMC)
- Nov 2014* Lata B T, Raghavendra M, **Sumukha T V**, Suhas H, Tejaswi V, Shaila K, Venugopal K R, L M Patnaik, “ ***DRFSD: Directed Restricted Flooding for Secure Data-aggregation in Wireless Sensor Networks***”, International Journal of Computer Networking, Wireless and Mobile Communications (IJCNWMC)

Projects

- Computer Networks* **Adaptive Load Balancing Protocol for Service Oriented Wireless Sensor Networks**
- An efficient load balancing protocol for routing data in a WSN.
 - Introduced a technique to deduce and evaluate a set of link disjoint paths from all available paths.
 - Congestion detection and control by adaptive load distribution over multipath.
- Computer Networks* **SSexecutor, A multi-platform project testing tool**
- A remote machine program execution system meant to facilitate code testing on multiple machines.
 - Copies a project from local machine to a remote machine and executes it.
 - Brings back the console output from the remote machine to the local machine.
- System Software* **SSASM, A Complete SIC Machine Assembler**
- Implementations of a Simple Instruction Set machine compatible assembler.
 - Includes technique to detect errors in the source code.
 - Produces an object file which is ready for loading.