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
2^{nd}PUC 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 the development of Infiniband products
- Involved in building device drivers and system softwares for Solaris OS
- Experience of coding on the SPARC machines

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

Feb 2015   Winner of Cisco Hackathon 2015.

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 ditribution 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**
- Implementation of a Simple Instruction Set machine compatible assembler.
- Includes a technique to detect errors in the source code.
- Produces an object file which is ready for loading.