

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 buiding 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

<i>Programming</i>	C, C++, Java, Python
<i>Web</i>	HTML, PHP, Javascript
<i>Database</i>	MySQL, MongoDB
<i>Operating Systems</i>	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 multi-path.
- 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.