

Soniya Sadalkar

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EDUCATION

University of Southern California, Los Angeles, CA

Dec 2017

Viterbi School of Engineering.

Master of Science in Computer Science

PES Institute of Technology, Bangalore, India

May 2014

Bachelor of Engineering, Computer Science

WORK EXPERIENCE

Platform Engineer Intern, Supplyframe Inc. (Hackaday), Pasadena, CA

May 2017 – Aug 2017

Platform Engineering Team

- Analysis of Distributor Feed Data for the parts sold on findchips.io.
 - Implemented Hadoop jobs to generate the distributor feed data using Map-Reduce.
 - Analysis of Stock and Pricing on both part-level and distributor-level using R and tableau.
 - Tool to generate daily alerts on variation of number of parts and its metadata.

Lead Systems Intern, Brain Body Dynamics Lab at USC

Oct 2016 – Jan 2017

- Creation of a device with tuning options for synthetic afferent muscles and spinal cords.
- Implementing a new device driver to harness the power of Field Programmable Gate Array (FPGAs).

Associate Software Engineer, Oracle Systems Pvt. Ltd, Bangalore, India

June 2014 - July 2016

Oracle Virtual Networking Team

- Implemented the kernel statistics for Solaris Host drivers for InfiniBand HCA Devices using C Kernel Programming. Fixed and implemented priority bugs, contributing to the driver stability.
- Enhanced and fixed features in the Userland Verbs API for kernel drivers.
- Integrated the Userland Verbs API into the Solaris OS – S12.
- Received “Oracle Employee Recognition Award” for solely integrating the Userland Verbs API.

Software Developer Intern, Cerner Healthcare Solutions, Bangalore, India

January 2014 - May 2014

Radiology and User Interface Uplift Team

- Implemented the User Interface for the calendar tool using Visual C++ and MFC libraries.

TECHNICAL SKILLS

Programming Languages:	C, Python, Java, C++, HTML, JavaScript, CSS, Android
Applications:	GNU C/C++, STL, MS Word, MS Excel, MS Visual Studio, Eclipse IDE
Operating Systems:	Unix(Solaris), Linux(Ubuntu), Windows
Course work:	Artificial Intelligence, NLP, Information Retrieval, Web Technologies, Networks, Operating Systems, Algorithms, Data Structures.

PROJECTS

- **Plugin for JavaScript to the Doxygen tool(C/C++):** Developed an enhancement to the de facto standard, open source tool for document generation-Doxygen, for JavaScript language.
- **Simulation of Virtual Memory mechanism using paging model (Java):** Team of 3 members was awarded 3rd Prize out of 50 teams for best Simulation.
- **Man Pages for predefined and user defined typedefs (Python):** "man <typedef>". A GUI and CLI.
- **Better Error messages for Template Programs of C++ (Python):** Produced short and meaningful errors.
- **Tool to understand Basic Block Identification and Local Optimization of compilers(Python)**

AWARDS AND RECOGNITION

- Received “Ministry of Human Resource Development” Scholarship from Govt. of India for 4 years for outstanding Academic Performance during undergraduate.