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 – Present Platform Engineering Team

* Developed production-facing features for Supplyframe API's and Data Processing Infrastructure jobs

using Hadoop (Map-Reduce).

* Analysis of Distributor Feed Data for the electronic parts sold on findchips.io.
  + 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.
  + Fixed production issues in the feed data pipeline.

**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: Java, C, Python, R, 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.