Soniya Sadalkar

1204 West Adams Boulevard, Los Angeles, CA 90007   sadalkar@usc.edu
Portfolio: https://www.linkedin.com/in/soniya-sadalkar-55645a37/   (213) 357-7799

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.