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 **[May 2018]**
Viterbi School of Engineering.
Master of Science in Computer Science (GPA: 3.5/4.0)

PES Institute of Technology, Bangalore, India **[May 2014]**
Bachelor of Engineering, Computer Science (GPA: 3.7/4.0)

TECHNICAL SKILLS

Programming Languages:	Java, C, Python, R, C++, HTML, JavaScript, CSS, Android
Applications/Frameworks:	Hadoop, Jenkins, Maven, Tableau, GNU C/C++, STL, MS Word, Excel
Operating Systems:	Unix(Solaris), Linux(Ubuntu), Windows
Course work:	Artificial Intelligence, NLP, Information Retrieval, Web Technologies, Networks, Operating Systems, Algorithms, Data Structures

WORK EXPERIENCE

Platform Engineer Intern, Supplyframe Inc. (Hackaday), Pasadena, CA **[May 2017 – Present]**
Platform Engineering Team

- Created production-facing features for Supplyframe API's and Data Processing Infrastructure jobs in Hadoop (MapReduce).
- Performed data mining and analysis of historical distributor Feed Data (Stock and Pricing) for electronic parts sold on www.findchips.io by leveraging skills in R and Tableau.
- Devised a Tool to trigger unexpected daily alerts for variations in number of parts and its metadata.
- Designed and implemented rules for extracting cleaner pricing field in production job, increasing correctness to 90%.
- Fixed production issues in feed data pipeline advancing data consistency by 2%.

Lead Systems Intern, Brain Body Dynamics Lab at USC **[October 2016 – January 2017]**

- Harnessed power of Field Programmable Gate Array (FPGAs) in implementing a new device driver with tuning options to simulate behavior of afferent muscles and spinal cords.

Associate Software Engineer, Oracle Systems Pvt. Ltd, Bangalore, India **[June 2014 - July 2016]**
Oracle Virtual Networking Team

- Captured 90% of kernel statistics for Solaris Host drivers on InfiniBand HCA device with C Kernel Programming.
- Boosted driver stability by 2% by fixing production-facing priority bugs.
- Enhanced and fixed features in Userland Verbs API for kernel drivers.
- Received “Oracle Employee Recognition Award” for exceeding expectations by 20% in integrating Userland Verbs API into Solaris OS-S12.

Software Developer Intern, Cerner Healthcare Solutions, Bangalore, India **[January 2014 - May 2014]**
Radiology and User Interface Uplift Team

- Developed calendar tool for desktop-based medical applications; used Visual C++ and MFC libraries.

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PROJECTS

- **Natural Language Processing (NLP):** Researched emotion detection of Hindi songs with unsupervised spectral clustering with a team of four, HMM part-of-speech tagging for Catalan language and Naive Bayes Classifier for classification of hotel reviews deceptive/truth.
- **Constructed a Plugin for JavaScript language to de facto standard, open source tool for document generation-Doxygen(C/C++)**
- **Simulated 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 type definition(Python)**: Developed a GUI and CLI -"man <typedef>".
- **Better Error messages for Template Programs of C++ (Python):** Produced short and meaningful errors.

AWARDS AND RECOGNITION

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