Soniya Sadalkar

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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, Lucene, SOLR, 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
Certifications	Ultimate Hands-on Hadoop – taming Big data by Frank Kane.

WORK EXPERIENCE

Platform Engineer Intern, Supplyframe Inc. (Hackaday), Pasadena, CA **[May 2017 – August 2017]**
Platform Engineering Team
- Created production-facing features for Supplyframe APIs 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.

PROJECTS

- **Token Bucket Filter(C)**: Emulated **traffic shaper** who transmits packets controlled by a token bucket filter using multi-threading within a single process.
- **Comparing Ranking Algorithms with Solr:** compared the algorithms like PageRank, Vector Space model and Boolean Model.
- **Plugin for JavaScript language for Doxygen(C/C++):** Devised a plugin for JavaScript in the open source tool -Doxygen
- **Simulated Virtual Memory mechanism using paging model (Java):** Team of 3 members was awarded 3rd Prize out of 50 teams for best Simulation.
- **Better Error messages for Template Programs of C++ (C++, Python):** Designed and created a prototype to output short and meaningful error messages for errors in the use of C++ templates.

AWARDS AND RECOGNITION

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