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.