**Tanaya Satish Vadgave**

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**EDUCATION**

**Master of Science, Computer Engineering:** University of California Riverside, California, USA Jun17

**Bachelor of Engineering, Electronics and Telecommunication:** Pune University, India May14

**TECHNICAL SKILLS**

**Programming:** Java, JavaScript, HTML, CSS, Python, C++

**Frameworks:** AngularJS, SpringMVC, SpringBoot, SpringJPA, Hibernate

**Databases/Servers:** Oracle, MySQL, Tomcat

**OS/Environments:** Linux, Windows, Java EE

**Miscellaneous:** MuleSoft,JSP-Servlet, CUDA-C,GitHub

**PROFESSIONAL EXPERIENCE**

**Business Technology Analyst (Role: Java Developer) - Deloitte Consulting LLP** Sep17 - Present

* Project1- Developing an end-end web application for Insurance use-case. Using best practices of SDLC such as agile methodology, unit testing, version control and SonarLint analysis. Supporting to build an ‘AWS migration plan’ and developing POCs for services S3, Glue, EC2, IAM, Load Balancer, Security Group
* Project2- Supported for analyzing and testing the application, finding performance bottleneck and contributing for performance tuning, defect fixing and code optimization. Improved the performance of data loading by 10x times
* Project3- Wrote technical user stories of big data architecture for Data Ingestion, Data Virtualization and API Management
* Project4**-** Developing APIs for SAP in/outbound use-case using MuleSoft’s Anypoint Platform

**Technologies:** Java, JDBC, Oracle SQL, Spring-JPA, RESTful, AngularJS, Bitbucket, SonarLint, NiFi, IBM MQ, Mulesoft

**Masters Intern High Performance Computing - Pacific Northwest National Laboratory, USA** Jan17 – June17

* Optimized Smith-Waterman Algorithm for the Longest Sequence Alignment problem (Java, C++)
* Parallelized the program and analyzed it at compile and run time

**Teaching Assistant - University of California Riverside** Jan16 - Dec16

* Lead labs for courses - *‘Principles of Programming Languages’* , *‘Computer Architecture and Embedded Systems’*, *‘Introduction to Computing’* (Java, C++, JavaScript, HTML, CSS)

**Research and Development Intern - Embionics Technologies Pvt. Ltd. Pune, India** Nov14 - Jun15

* Designed and developed low cost one trip USB-PDF Data Logger’ in ‘C’ to record temperature of shipments

**Research and Development Intern - SCOPE Test and Measurement Pvt. Ltd. Pune, India**  Jun14 - Sep14

* Designed and developed ’Digital and Mixed Signal Testing Unit’ in ‘C’ to test assembled components of PCBs

**PROJECTS**

**Neural Network Backpropagation - CUDA-C**

* Implemented 3 layer Backpropagation Neural Network, parallelized the training on GPU and optimized it

**WebCrawler and Search Engine - Java/JSP-Servlet**

* Implemented multi-threaded Web Crawler to crawl the webpages
* Designed a Search Engine using Lucene Indexing, Hadoop Indexing and Page Rank algorithm
* Designed UI using JSP-servlet and displayed query results and snippet

**Flight Reservation System - Java/AngularJS**

* Created Flight Reservation web application. Used RESTful Web Services at the backend
* Used Spring MVC design pattern. Used Hibernate (ORM) to interact with Oracle 11g database

**Backup to Google Drive - Bash/JavaScript**

* Used ‘Duplicity’ utility to take backup on google drive. Created Web GUI
* Automated the set up process and displayed the backup progress

**Parallel Graph Pattern Searching - Java, C++**

* Implemented ‘Graph Homomorphism’ graph pattern searching algorithm and parallelized it using POSIX threads

**Channel Routing Algorithm - JavaScript**

* Visualized ‘Left edge algorithm’ for channel routing of floor chip mapping

**Retail Cart - Java/AngularJS**

* Created Online shopping application using RESTful Web Services
* Used Hibernate (ORM) to interact with Oracle 10g database. Used Tomcat 8 to deploy