

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++	Databases/Servers: Oracle, MySQL, Tomcat
Frameworks: AngularJS, SpringMVC, SpringBoot, SpringJPA, Hibernate	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
<ul style="list-style-type: none">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 GroupProject2- 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 timesProject3- Wrote technical user stories of big data architecture for Data Ingestion, Data Virtualization and API ManagementProject4- 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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Lead labs for courses - '<i>Principles of Programming Languages</i>', '<i>Computer Architecture and Embedded Systems</i>', '<i>Introduction to Computing</i>' (Java, C++, JavaScript, HTML, CSS)	
Research and Development Intern - Embionics Technologies Pvt. Ltd. Pune, India	Nov14 - Jun15
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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