Vineeth Reddy Vallapureddy

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SUMMARY

Results-driven Software Developer with 3 years of expertise in backend development and dynamic UI solutions. Passionate about leveraging technology for innovation and enhancing user experiences.

EDUCATION

University at Buffalo, The State University of New York — Buffalo, NY
Master of Science in Computer Science — *CGPA: 3.83/4.0*

Indian Institute of Technology Dhanbad — Dhanbad, India (May 2020)
Bachelor of Technology in ECE, Minor in Computer Science. — *CGPA: 8.25/10.0*

TECHNICAL SKILLS

Languages: C/C++, Java, Python, SQL, JavaScript, HTML5/CSS, TypeScript

Frameworks & Libraries: React, Spring Framework, pandas, Numpy, Matplotlib, pyTorch, spark, Hadoop

Developer Tools: Docker, Kubernetes, AWS,Version control system(Git, Bit Bucket) Git, Bit Bucket, Continuous Integration and Continuous Delivery (CI/CD), VS Code, Visual Studio, IntelliJ, STS, Camunda, OCP, Jira

Development Practices & Technologies: Debugging, web development, RESTful APIs, Agile Development, JSON, Jenkins, WebPack, Unit Testing, Relational Databases, Babel, Maven, Computer Networks(TCP/IP, DNS)

Databases & Data Analysis Tools: MySQL, Couchbase , PostgreSQL, Tableau

EXPERIENCE

Software Engineer (Backend & Frontend) — August 2020 – January 2023
Amdocs India - Order Handling Unit & Digital Experience Unit — *Pune, India*

- Spearheaded the development of scalable RESTful microservices using Java, Spring Boot, JUnit, and Couchbase in an agile setting, deploying with Docker and Kubernetes to cut time-to-market by 30% and enhance productivity.
- Analyzed, debugged, and resolved customer-reported Order Handling issues using Java, IntelliJ IDEA, Camunda and Postman, resulting in improved system reliability and customer satisfaction.
- Enforced 80% unit test coverage for all microservices using JUnit, ensuring code quality and reliability throughout the development process.
- Created Single Page Applications (SPAs) with React.js, utilizing its component-based structure and virtual DOM for fast rendering and smooth user interactions, ensuring a dynamic and responsive UI experience.
- Showcased expertise in UI development through the proficient use of JavaScript, TypeScript, React, Redux, HTML, and CSS for crafting dynamic and engaging web pages.
- Other Skills: Object-oriented design principles, Code Review, Code Documentation, Teamwork, Leadership

PROJECTS

Comparative Analysis of Clustering Algorithms | *Python* — November 2023 – December 2023

- Engineered K-means, Hierarchical Agglomerative Clustering (Min approach), Density-Based Clustering, Mixture Model, and Spectral Clustering algorithms from ground up for gene datasets.
- Evaluated performance via Rand Index and Jaccard Coefficient, visually represented outcomes using PCA.

Retail Database Management System | *sql* — May 2018 – May 2019

- Built and maintained a retail database from scratch deploying database design theory, involving data massaging using python, modeling E/R diagram and translating into relational schema.
- Analyzed functional dependencies and normalized tables to eliminate data redundancies and anomalies.
- Designed an interactive PowerBI dashboard to provide visual insights into database.

MERN: Full Stack Guide | *JS,React,MongoDB,NodeJS,NextJS* — June 2023 – January 2024

- Successfully integrated ReactJS with NodeJS, Express, and MongoDB, crafting a robust full-stack application

PROFESSIONAL CERTIFICATIONS & INVOLVEMENT

- Deep Learning - Udacity Nano Degree Program — *Validation Link:* Certificate of Completion
- AWS Certified Developer-Associate — *Validation Number:* WZSDL9CJNFQ41FW6
- Served as a Senator for the CSE-Graduate Student Association at the University at Buffalo.