

SUMANTH THOTA

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PROFESSIONAL EXPERIENCE

UnionLabs Project, University at Buffalo

Software Engineer

Buffalo, NY, USA

Feb 2024 - Present

- Led full-stack development for a research platform leveraging Go, React, and AWS enabling seamless collaboration among 4 universities by providing access to geographically dispersed edge nodes.
- Developed and deployed AWS Lambda functions as independent microservices, integrating them with API Gateway to create robust and scalable APIs.
- Optimized frontend performance by integrating lazy loading and refactoring code, reducing UI load times by 40%.
- Implemented user authentication and authorization using Firebase, ensuring app security and role-based access control.

Accenture

Software Engineer

Bengaluru, KA, India

Jan 2020 - Aug 2022

- Led the initiative to implement a Command Query Responsibility Segregation (CQRS) and Event Sourcing solution that aggregated employee data for Workforce management app. This decoupled reads and writes to scale modules independently based on traffic. Primarily focused on Java, MongoDB and Docker.
- Developed REST APIs with 100% test coverage for JWT authentication, Event Logging, and Employee Data Management, ensuring performance in the backend services.
- Designed and implemented features that enable integrations to automatically address failed transfers using an Apache Kafka queuing service, saving 10+ hours per week.
- Built web automation testing tools using JavaScript, Selenium, and Jenkins, streamlining CI/CD workflows resulting in a 50% reduction in testing time, and managed Jira for defect tracking.

Krify Software Solutions

Software Engineer Intern

Bengaluru, KA, India

May 2019 - Aug 2019

- Aided in the development of a loyalty program application using Spring MVC, Hibernate, jQuery, and Lombok, which incentivized user engagement through a referral bonus structure.
- Designed and implemented a production-grade relational database on PostgreSQL, optimizing the schema for efficient storage of user data, referral relationships, and transaction history.
- Integrated the loyalty rewards with existing user accounts using REST APIs, streamlining the user experience.

PROJECTS

Search Engine

- Developed a search engine scraping Reddit data leveraging PushshiftAPI, streamlined unstructured data with Solr, and applied relevancy scoring techniques, significantly improving search accuracy and information retrieval efficiency.

Video Streaming Service

- This cloud-based video app enables users to upload, view, and comment on videos. Built with TypeScript for backend logic, it utilizes Firebase API for CRUD operations and runs on GCP Cloud Run with Docker for containerization.

Events Booking App

- Developed an events booking application using GraphQL for APIs, and MongoDB for data storage in Nodejs runtime. This GraphQL API serves as the core, offering efficient, flexible data handling enhancing backend performance.

SKILLS

- Languages:** Java, TypeScript, Python, Go
- Databases / Middleware:** MySQL, PostgreSQL, MongoDB, Apache Kafka
- Web Frameworks:** React, Spring Boot, Node.js, Express.js, REST APIs, GraphQL
- DevOps / Cloud:** Amazon Web Services, Google Cloud, Docker, Terraform, Git

EDUCATION

University at Buffalo - SUNY

Master's, Computer Science and Engineering

Aug 2022 - Dec 2023

GPA: 3.6

- Focus areas: Data Structures and Algorithms, Data Modeling and Query Languages, Information Retrieval, Machine Learning, Data Intensive Computing.