

SUMANTH THOTA

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WORK EXPERIENCE

UnionLabs Project, University at Buffalo

Buffalo, NY, USA

Full Stack Developer

Aug 2023 - Present

- Architected and Implemented a Cloud-Native application for Remote Server Access utilizing AWS EC2, Systems Manager, and Golang, achieving a 60% reduction in server access latency.
- Engineered Serverless Event-Driven Microservices with AWS Lambda, saving \$10K in infrastructure costs.
- Implemented File Sharing feature using AWS S3 and SQS, ensuring reliable transfer of large datasets across the system.
- Optimized front-end by Routing, Code Splitting, and Lazy Loading, reducing UI load times by 60% (5s to 2s).
- Enhanced app security by integrating Firebase Authentication and Authorization, enabling role-based access control.

Accenture

Bengaluru, KA, India

Software Engineer

Jan 2020 - Aug 2022

- Spearheaded the Backend Development of UKG's HR platform using Event-Driven Architecture, centralizing 1 Million employee records and improving data access efficiency. Utilized Java, Spring Boot, MongoDB, and Docker.
- Developed high-performance APIs using Transactional Outbox Pattern with robust Retries, and unit tests with Mockito.
- Optimized legacy code with Kafka Integration, slashing data retrieval time by 92.85% (from 14 hours to 1 hour).
- Increased Web Automated Test coverage by 80% using Selenium, significantly reducing user-reported bugs by 50%.
- Actively contributed to DevOps practices by optimizing CI/CD Pipelines, managing Pull Requests, and Code Review.

Krify Co.

Bengaluru, KA, India

Software Engineer Intern

May 2019 - Dec 2019

- Developed key E-Commerce features including Referral Bonus, Checkout, and Link-Sharing using Spring MVC, Hibernate, and jQuery, driving a 150% increase in user base over 6 months.
- Optimized database operations with PostgreSQL and enhanced application security using Spring Security with Thymeleaf.
- Implemented an Automated QA Process reducing manual testing efforts by 40% and increasing team productivity by 20%.

PROJECTS

Search Engine

- Developed a Reddit search engine using PushshiftAPI, Python, and Solr, boosting information retrieval accuracy by 30%.
- Implemented BM25 Scoring Algorithm and Query Proximity techniques to enhance search result relevance.

Events Booking App

- Designed a GraphQL Schema for efficient data retrieval, reducing network calls by 75% and improving performance.
- Utilized Express.js for server-side logic and MongoDB for data Storage to implement event management and booking.

Video Streaming Service

- Built a video streaming app with Pub/Sub Architecture using FFmpeg and TypeScript, supporting real-time interactivity.
- Leveraged Firebase API for data management and deployed the application on GCP Cloud Run using Docker image.

SKILLS

- Programming Languages:** Java, Python, JavaScript, TypeScript, Go
- Databases:** MySQL, PostgreSQL, MongoDB, Redis
- Frameworks & Libraries:** Spring Boot, ReactJS, Node.js, Express.js, Django, REST APIs, GraphQL, JUnit
- Cloud & DevOps:** AWS (EC2, Lambda, S3, SQS), GCP, Kafka, Linux, Docker, Kubernetes, Git, Agile methodologies

EDUCATION

University at Buffalo - SUNY

Aug 2022 - Jan 2024

Master's, Computer Science and Engineering

GPA: 3.6

- Database Systems, Distributed Systems, Data Intensive Computing, Parallel Computing, Machine Learning, Blockchain

PUBLICATIONS

Cloud-Based Federation Framework for Open, Scalable, and Shared Access to NextG and IoT Testbeds

Arxiv