

SUMANTH THOTA

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EXPERIENCE

SUNY Research Foundation

Aug 2023 – Present

Software Engineer

Buffalo, New York

- Built a Cloud-based IoT access platform in **Java** and Golang, transformed it into a cloud-native solution using **AWS Lambda** for serverless architecture, saving **\$50K** in infrastructure costs.
- Developed high-performance **RESTful APIs** with scalable design using AWS S3 and SQS to facilitate remote access and File Sharing, reducing network access latency from **50 seconds to just 11 seconds**.
- Automated dynamic port allocation using Bash scripts, enabling access to **200+** nodes via **network configurations**.
- Streamlined **React** components by integrating Code Splitting and Lazy Loading, cutting UI load times from 5s to 2s.
- Automated deployments by implementing a **CI/CD pipeline** using AWS CodePipeline, ECS, and GitHub Actions, enabling zero downtime releases with every code push.

Accenture

Jan 2020 – Aug 2022

Software Engineer

Bengaluru, India

- Created RESTful APIs for HCM application using **Java** and **Spring Boot**, implementing CQRS and **event-driven** architecture which led to faster response time and traceability.
- Developed a **microservices architecture** using Spring Boot framework, resulting in increased system efficiency by 10% and a significant reduction in bugs.
- Integrated **Apache Kafka** between microservices as an event-driven messaging system across **MongoDB** resources.
- Utilized **Spring Data JPA** for database integration, resulting in simplified data access layer and improved data retrieval.
- Created a robust test suite using **JUnit** and **Mockito** to ensure high code coverage and integrated the **ELK stack** for centralized logging, enabling real-time monitoring and reducing troubleshooting time by 40%.

Krify Co.

Jan 2019 – Dec 2019

Software Engineer

Bengaluru, India

- Developed a Full-Stack application with **Java**, Spring Boot, and Hibernate ORM for PostgreSQL integration.
- Designed and implemented security features such as JWT-based authentication and authorization using **Spring Security**, ensuring a secure and robust application.
- Addressed critical production issues by testing **100+** RESTful APIs, gaining insights to **test-driven development**.

TECHNICAL SKILLS

Languages: Go, Java, Python, JavaScript, HTML/CSS

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis

Frameworks: Spring Boot, Hibernate, Spring Data JPA, Gradle, React.js, Express.js, Node.js, Selenium, JUnit5, Mockito

Developer Tools: DSA, Design Patterns, Linux, Kafka, Jenkins, Docker, Kubernetes, ELK Stack

AWS Services: SDK, Lambda, S3, EC2, ECR, Elastic Compute, CloudWatch, Elastic Load Balancer, API Gateway

Certifications: AWS Certified Cloud Developer - **Associate**

PROJECTS

E-Commerce app | Java, Kubernetes, Kafka

June 2024

- Developed a shopping app with 6+ microservices, integrated **Stripe API** for payments and MongoDB for orders.
- Implemented Keycloak for app security and built an event-driven email notification system using **Kafka**.
- Containerized services with **Docker**, deployed on **Kubernetes**. Implemented **Grafana stack** for metric visualization.

Video Streaming Service | TypeScript, Google Cloud, React

July 2023

- Built a video streaming app with **Pub/Sub** architecture for video encoding using Express.js, TypeScript, and GCP.
- Developed user login, video upload, streaming, thumbnails, and like button features using React.
- Utilized Firebase API for video storage and built CI/CD pipeline with **Jenkins** and **Docker** for Cloud deployment.

EDUCATION

University at Buffalo

Buffalo, New York

Master of Science in Computer Science; GPA: 3.6

Jan 2024