

Dhrithi Gulannavar

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Education

Master of Science in Software Engineering (Specialization: Cybersecurity) August 2023 – May 2025

San Jose State University

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Relevant Coursework: Enterprise Distributed Systems, Cloud Technologies, Software Systems Engineering (Agile, SCRUM), Database Systems, Software Quality Assurance Testing, Machine Learning, Object-Oriented Design, Operating Systems

Experience

Teaching Assistant — San Jose State University, San Jose, CA Jan 2025 – May 2025

- Led distributed systems and scalability labs on AWS EC2, Lambda, Docker, mentoring 40+ students on maintainable code practices, availability concepts, and modern CI/CD deployment.
- Guided applications and backend systems development using REST APIs, GraphQL, AWS VPC configurations, promoting Git workflows and contemporary development tools with focus on performance optimization.

Software Engineer Intern — Katonic AI, San Jose, CA May 2024 – August 2024

- Built large-scale distributed RAG chatbot using microservices architecture with HuggingFace, FAISS, LangChain, handling 200+ concurrent users with sub-300ms response times and Docker containerization.
- Finetuned model using LORA and qLORA developed API infrastructure using Node.js implementing REST APIs processing 1,000+ daily requests across distributed backend systems.
- Integrated AWS Lambda and AWS CloudWatch, optimizing ML pipeline throughput by 25% with comprehensive testing using Jest and Python frameworks.

Software Engineer - I — Dell EMC, Bengaluru, IN September 2022 – July 2023

- Engineered enterprise-scale distributed notification system using Java Spring Boot microservices architecture, processing 10,000+ alerts daily with Lambda triggers, message queues, and Redis caching.
- Built production OAuth2 APIs using Spring Security, integrating MySQL and MongoDB with 100% test coverage using Jest and Mocha frameworks.
- Developed mobile app compatible Angular components, consuming REST APIs with Cypress integration tests, deployed via Docker containers and Jenkins CI/CD pipelines following Agile/SCRUM development process.

Software Engineer — Adamas Tech, Bengaluru, IN November 2021 – August 2022

- Developed performant Node.js backend systems and Express REST APIs handling bulk operations with SQL databases (MySQL), processing 3,000+ records with well-tested code and optimized database transactions.
- Automated DevOps workflows using bash scripting, implementing Git-based CI/CD pipelines eliminating manual processes and improving scalability by 50%.
- Built responsive and reusable interfaces using React and deployed the stack service oriented architecture on AWS EC2 along with NGINX configuration.

Projects

Focus Tracker | React, Python, FastAPI, Redis, Google Cloud, ML, REST

- Architected distributed ML analytics platform using FastAPI microservices and Python serverless functions, achieving 85% prediction accuracy with 20+ concurrent sessions.

Subscription Manager | Java, Spring Boot, AngularJS, RabbitMQ, MySQL, Chart.js

- Built end-to-end microservices platform using Java Spring Boot and message queue architecture, handling Auth/Subscription/Notification services with Docker deployment.

Leadership/Extracurricular/Volunteering

- Published and presented paper in IEEE Conference 2022 - "Driver Drowsiness Detection using Non-Learning Methods"
- Led volunteer operations for 50+ team members, managing rescue coordination for street dogs.

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, Go (familiar), C, SQL, HTML, CSS, JSON

Developer Tools & Frameworks: React.js, Node.js, Spring Boot, Angular, RESTful APIs, Swagger, Postman, FastAPI, GraphQL, Git, GitHub, Jira, Confluence, Claude, Cursor, Sequelize, Hibernate, Debezium(studying)

Test Automation : JUnit, Jest, Mocha, CI/CD Pipelines, Selenium, unit testing, integration tests, Agile/SCRUM

Cloud & DevOps: AWS (Lambda, ElasticSearch, EC2, DynamoDB, S3, CloudWatch), Docker, Kubernetes(learning)

Databases & Engineering: MySQL, MongoDB, Redis, SQL databases, NoSQL databases, Kafka, RabbitMQ

AI & Machine Learning: Retrieval-Augmentation-Generation(RAG), LLM's, Scikit-learn, Tensorflow