

Sharath Chandra Reddy Kottam

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TECHNOLOGIES

Prog. Languages: Python, Java, SQL, JavaScript

Frameworks/Tools: Spring Boot, FastAPI, Flask, Docker, Kubernetes, GitHub Actions, Jenkins, JWT, SQL Alchemy

Cloud & Databases: AWS (EC2, RDS), PostgreSQL, MySQL

Coursework: Cloud-Native Software Design with AWS, Rapid Prototyping & Systems Development, Database Systems and Architecture, Interpretable Machine Learning, Cybersecurity and Operating Systems Security

PROFESSIONAL EXPERIENCE

Software Development Intern – Data & Systems

September 2022 – Jun 2023

Hallmark Chemicals

Nellore, India

- Improved backend logic of internal Flask apps and migrated data storage to **PostgreSQL** for better reliability.
- Introduced **Docker** for local development and helped standardize environment setup across the team.
- Developed and documented internal **RESTful APIs** for accessing material usage logs.
- Automated ingestion of CSV logs into databases using Python scripts with validation checks.
- Wrote **shell scripts** and cron jobs to assist with internal system monitoring and log management on Linux servers.

Software Engineer

May 2021 – August 2022

Hallmark Chemicals

Nellore, India

- Learned and applied Python scripting to automate manual reporting tasks for the operations team.
- Built simple internal dashboards using **Flask** and **HTML** to display material tracking data.
- Wrote basic **SQL queries** to support weekly data exports and inventory summaries.
- Used **Postman** to test REST API endpoints and troubleshoot data formatting issues.
- Gained experience with **Git** and participated in version control, documentation, and weekly code reviews.

EDUCATION

George Mason University

Aug. 2023-May 2025

MS, Information Systems

Fairfax, VA

ACADEMIC PROJECTS

Student Survey Microservices |

2025

Spring Boot, MySQL (RDS), Docker, Jenkins, AWS EC2, Kubernetes, Rancher, Maven, GitHub, Postman

- Designed and developed microservices using **Spring Boot** with **RESTful APIs** for survey management, integrated with **AWS RDS MySQL** and tested via **Postman**.
- Containerized the application with **Docker**, deployed to a **Kubernetes cluster on AWS EC2** using **Rancher**, and implemented scalable load-balanced services.
- Built a full **CI/CD pipeline using Jenkins**, managed dependencies with **Maven**, configured GitHub integration, and implemented basic monitoring for system health.

DevConnect – REST API Developer Platform |

2024

FastAPI, PostgreSQL, JWT, Docker, GitHub Actions, SQL Alchemy, Swagger UI, Postman

- Built a backend system using **FastAPI** and **PostgreSQL**, enabling developers to register, manage profiles, post projects, and follow/unfollow users via secure **JWT-authenticated APIs**.
- Structured database models with **SQL Alchemy**, auto-documented endpoints with **Swagger UI**, and tested API flows using **Postman**.
- Containerized the application with **Docker** and configured a basic **CI pipeline using GitHub Actions** for code formatting and unit testing.