




ROHITH REDDY DEPA

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 <https://rohithreddydepa.github.io/latest-portfolio/>

Summary

Backend Software Engineer with 2+ years of experience building scalable web applications and reliable REST APIs. Proven expertise in developing CI/CD pipelines, optimizing performance, and integrating cloud solutions. Demonstrated ability to collaborate effectively using Docker, Git, and AWS to enhance customer-facing services.

Education

University of Houston

Master of Science, Computer Science

May 2025

Houston

Jawaharlal Nehru Technological University, Hyderabad

Bachelor of Technology, Computer Science and Engineering

Apr 2022

Work Experience

University of Houston

Research Assistant

Oct 2023 - Present

Houston, TX

- Developed and deployed Cyber-care website using Cascade CMS, integrating with enterprise content management systems, enhancing SEO and boosting traffic by 30%.
- Engineered a YOLOv8 model for TxDOT sign detection, bolstering GIS coverage by 40% by identifying 10K+ undocumented signs via Street View API and automating geospatial validation to reduce manual checks by 90%.
- Built a damage detection solution for signs, lights, and pavement using YOLOv8 and ResNet50, reinforcing backend reliability and reducing manual inspection efforts.

OpenText

Software Engineer

Nov 2021 - Aug 2023

Hyderabad, India

- Designed an Angular/SpringBoot application that managed 50K+ daily requests, reducing API latency by 35% through effective REST integration, cutting UI load times by 40% via lazy loading and pre-fetching, and lowering server costs by 25%.
- Optimized SQL queries with materialized views and index tuning, improving report generation speed by 40%.
- Automated a legal document processing pipeline using AWS Glue and Lambda, reducing ETL time from 6 hours to 90 minutes and ensuring consistent service reliability.
- Implemented a CI/CD pipeline using GitHub Actions and Jenkins, achieving a 99.9% deployment success rate while coordinating with team-based GIT workflows.

OpenText

Software Engineer Intern

Oct 2021 - Nov 2021

Hyderabad, India

- Migrated a legacy PHP system to .NET Core, enhancing page load performance by 20% through asynchronous rendering improvements.
- Developed 12 REST APIs with ASP.NET Core that supported 1K+ concurrent users during product launch, demonstrating effective integration and API design.

Projects

Microservices-based E-Commerce platform

- Engineered a scalable microservices architecture with Angular, Spring Boot, and GraphQL.
- Integrated payment gateways, JWT authentication, and optimized performance, reducing response time by 30%.

Distributed File Sharing System

- Built a FastAPI based peer-to-peer file-sharing app with AES-256 encryption, using MinIO for storage, RabbitMQ for messaging, Celery for tasks, and Docker for deployment.

Chatbot

- Shrinking support tickets by 40% using DeepSeek integration with 92% query resolution rate
- Built an analytics dashboard with Elasticsearch + Kibana for real-time conversation monitoring

Skills

- **Languages:** Java, Python, TypeScript, JavaScript, C, C++, HTML, CSS, SCSS
- **Databases:** PostgreSQL, MongoDB, SQLite, MySQL, Oracle, Firebase, Redis
- **Frameworks And Tools:** Angular, React, Node.js, Spring Boot, FastAPI, Git, Bootstrap, Tailwind, Celery, Winston
- **Cloud And DevOps:** AWS, Jenkins, Docker, Kubernetes, Terraform, GitHub Actions, AWS CodePipeline
- **API Technologies:** REST, GraphQL, JWT, WebSockets