ROHITH REDDY DEPA

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EXPERIENCE

University of Houston   Oct 2023–Present
Research Assistant | Houston, TX

- Led the departmental website redesign on Cascade CMS, boosting organic traffic by 30% through SEO.
- Developed a YOLOv8 model achieving 98% mAP accuracy for TxDOT sign detection (Mapillary 50K+ images)
- Enhanced GIS coverage by 40% integrating Google Street View API, identifying 10K+ undocumented signs
- Automated geospatial validation reducing manual verification by 90% through coordinate analysis

OpenText   Nov 2021–Aug 2023
Software Engineer | Hyderabad, India

- Designed an Angular/FastAPI app handling 50K+ daily requests, reducing API latency by 35% (Redis cache-aside) and UI load times by 40% (lazy loading + pre-fetching) while cutting server costs by 25%
- Optimized SQL queries using materialized views and index tuning, improving report generation speed by 40%
- Automated a legal document processing pipeline (AWS Glue + Lambda), reducing ETL time from 6hr to 90min
- Implemented a CI/CD pipeline (GitHub Actions + Jenkins) with a 99.9% deployment success rate

OpenText   Oct 2021–Nov 2021
Software Engineer Intern | Hyderabad, India

- Migrated a legacy PHP system to .NET Core, improving page load performance by 20% through async rendering
- Developed 12 REST APIs with ASP.NET Core, supporting 1K+ concurrent users during product launch

TECHNICAL SKILLS

Languages	Java,Python, TypeScript, JavaScript, C/C++, SQL, HTML/CSS
Frontend	Angular, React, Redux, Bootstrap, Tailwind CSS, SwiftUI
Backend	Node.js, Spring Boot, FastAPI, .NET Core, GraphQL, REST
Cloud	AWS (EC2, S3, Lambda, Glue), Docker, Kubernetes, Terraform
Databases	PostgreSQL, MongoDB, Redis, Oracle, DynamoDB, Firebase, SQLite
Tools	Git, Jenkins, Jira, Confluence, Postman, Apache Kafka, VS Code, PyCharm, Eclipse

EDUCATION

University of Houston   May 2025
M.S. in Computer Science | GPA: 3.67/4.0

Jawaharlal Nehru Technological University, Hyderabad   Apr 2022
B.Tech in Computer Science | GPA: 3.9/4.0

PROJECTS

E-Commerce Platform

- Microservices architecture using Spring Boot + GraphQL, processing 500+ orders/day with 99.95% uptime
- Integrated Stripe payment gateway and JWT authentication, minimizing checkout errors by 60%

Secure File Sharing

- P2P system with AES-256 encryption and MinIO storage, achieving 98% faster transfers than SFTP
- Implemented a message queue with RabbitMQ, handling 1GB/s throughput in load tests

AISP 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