RITIK AMBADI

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Education ____

Northeastern University

Jan 2023 - May 2025

Master of Science in Computer Science - GPA: 3.92/4.0

Boston, MA

• **Teaching Assistant for Computer Graphics (CS4300/5310)** across 3 semesters, mentoring 250+ students in OpenGL programming, 3D rendering techniques, and graphics algorithms.

Jawaharlal Nehru Technological University

Jun 2018 - Jun 2022

Bachelor of Technology in Computer Science - GPA: 8.9/10

Hyderabad, India

Experience _____

Verve Motion

Jun 2024 - Dec 2024

Backend Software Engineer Co-op

Cambridge, MA

- Architected high-performance APIs handling 10K+ daily enterprise requests for exosuit telemetry and performance analytics using Go and AWS Lambdas.
- Delivered \$60,000 in annual savings by creating YAML-configured testing pipelines that automate gateway burn-in testing and eliminate manual hardware validation processes.
- Streamlined suit and gateway deployment by collaborating on a gRPC-based provisioning tool using Protocol Buffers to orchestrate Ansible playbooks, cutting infrastructure setup time by 80% from hours to minutes.
- Solved critical data gaps by implementing temporal data modeling and advanced SQL queries to enable historical workforce analytics despite lacking system-versioned tables.

Eusty Web Services

Jan 2022 - Dec 2022

Software Engineer

Hvderabad. India

- Built a GST validation module using Python that integrated with government APIs to verify customer GSTIN numbers
 across 28 Indian states, improving data accuracy and compliance for 500+ MSMEs.
- Developed AWS Lambda APIs to automate lead capture for Eusty's CRM, enabling MSMEs to convert business inquiries into leads with auto-generated contacts and reducing manual data entry time from 15 minutes to under a minute per lead.
- Improved reliability of mobile data sync for MSME field sales teams by adding offline-first caching with React service workers and DynamoDB batch writes, reducing sync failures by 40% and ensuring updates persisted in poor network conditions.

The School of Accelerated Learning

Sep 2019 - Dec 2019

Software Engineer Intern

Hvderabad, India

- Built reusable UIKit components with custom UITableViewCell and UICollectionViewCell classes in Swift, reducing code duplication by 25% and streamlining UI development.
- Contributed to a tutorials feature with efficient caching, async image loading, and video streaming, improving performance and user experience on mobile devices.

Skills

Languages Go, Python, Java, C++, Javascript, Typescript, HTML, CSS

Frameworks and Libraries React, Node.js, Next.js, Django, Electron.js, JQuery, Tailwind, Bootstrap

Cloud Infrastructure AWS, Docker, Kubernetes, Terraform, Nginx, Ansible

Databases and Caching MySQL, PostgreSQL, MongoDB, GraphQL, Redis

Data Streaming and Messaging Apache Kafka, Apache Spark, RabbitMQ

CI/CD and Testing GitHub Actions, Bitbucket Pipelines, Jenkins, Ginkgo, Jest, JUnit, Cypress

Projects _____

Image Manipulation and Enhancement

• Developed an MVC-architected image processing suite with 12 high-performance operations natively coded in Java with consistent sub-100ms execution times on image operations and 95% test coverage.

StreamForge - Stream Processing Framework

• Engineered high-performance distributed stream processing system (Go, HDFS) with exactly-once delivery semantics, custom task scheduling algorithms, and fault-tolerant integration with distributed file system across 10-node cluster.

Biblio - Ecommerce Platform

• Engineered a mobile-responsive e-commerce platform supporting secure payments, account management, order tracking and robust session management, tested on 10,000+ records for scalability.