

ROHITH MATAM

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EDUCATION

California State University Dominguez Hills

Master's in Computer Science

Carson, CA

August 2023 – May 2025

- **GPA:** 3.85
- **Relevant Courses:** Design and Analysis of Algorithms, Advanced Software Engineering, Object-Oriented Analysis and Design Methodology

PROFESSIONAL EXPERIENCE

Loker Student Union

Graduate Student Assistant

Carson, CA

April 2024 – Present

- Optimized reservation databases to ensure **95% data integrity** and reduce query times by 20%, using Python and SQL.
- Managed data for 100+ events monthly, boosting booking efficiency by 30% through timely confirmations.
- Led integration of secure payment processing systems, streamlining event payment processing for over 100 users.

Webacy Inc. (Facilitated by Extern)

Blockchain and Web3 Security Research Extern (Remote)

New York, NY

August 2024 – September 2024

- Analyzed Web3 security challenges to improve **threat awareness** by **30%** through research and expert collaboration.
- Mapped non-mainstream competitors to enhance strategic insights, increasing **competitive intelligence** by **25%**.
- Evaluated emerging blockchain technologies to drive innovative solutions using analytical skills.

Site Service Software

Full Stack Developer Intern (Remote)

Jamison, PA

August 2024 – October 2024

- Implemented **cloud-based** solutions for on-premise software to enhance accessibility and scalability by **40%** using **React** and **Spring Boot**. Developed and deployed REST APIs for cloud-based applications, ensuring 99.9% system uptime.
- Designed and built scalable **back-end services** and **REST APIs**, optimizing server response times by 30% and ensuring high availability for cloud-based services.
- Created modular front-end components with React.js, enhancing UI performance and streamlining user interactions.

Infosys

Software Engineer

Mysore, IN

December 2022 – July 2023

- Spearheaded the development of secure, high-performance back-end systems for **network automation** using **Java**, optimizing service uptime and throughput.
- Integrated **SQL** and **NoSQL** databases (MySQL, MongoDB) to handle massive amounts of network data, increasing retrieval efficiency by 20%.
- Designed and implemented network security solutions with GNS and Cisco Packet Tracer, reducing breaches by 15%.

AWS & AICTE

Virtual Internship

Hyderabad, IN

July 2021 – December 2021

- Completed the AWS Academy Cloud Foundations course with a **95% score**, mastering AWS essentials and deploying EC2 instances, reducing attack surfaces by 40% and optimizing storage costs by 25%.
- Built and optimized **REST APIs** for automated data processing, reducing overhead by 30%.

PROJECTS

SmartWaste Vision: Real-Time AI Waste Detection

Python | TensorFlow (Machine Learning)

Hyderabad, IN

September 2023 – December 2023

- Engineered a machine learning pipeline for real-time waste detection, optimizing object classification accuracy to 95% with deep learning techniques, and implemented cloud-based deployment for continuous learning and model updates.

E-Commerce Checkout Optimization

Python | Flask | SQL | AWS (Software Engineering, Cloud Services)

Long Beach, CA

January 2024 – March 2024

- Built and optimized an end-to-end e-commerce checkout system with **Flask** and **AWS**, improving scalability and fault tolerance, reducing checkout time by 25%, and designing secure REST APIs for efficient transaction processing.

Student Performance Analysis: Predictive Modeling

Python | Scikit-learn | Flask (Data Science, Data Visualization)

Long Beach, CA

April 2024 – September 2024

- Developed a predictive model for student performance with 90% accuracy, integrating interactive data visualizations via **Flask**, while enhancing feature engineering and **data pre-processing** to improve model stability and scalability.

TECHNICAL SKILLS

Programming Languages: Kotlin, Java, Python, C++, JavaScript, Shell Scripting

Frameworks & Tools: Guice, Spring Boot, JUnit, React.js, Django, Flask, Protocol Buffers

Distributed Systems: AWS DynamoDB, ElastiCache (Redis), EKS, SQS, MSK

API Technologies: gRPC, JSON, HTTP/S, OpenAPI

Database Technologies: AWS Aurora (MySQL), Horizontally-sharded Databases, AWS S3

Other Skills: Event-driven Architecture, Fault-tolerant System Design, Microservices, REST APIs