Rohan varma Gaddam

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Education

University of North Carolina at Charlotte | Master's in Information Technology.
Relevant Coursework: Data Structures & Algorithms, AI-Driven Development, Software System Design, Human-Centered Design

Charlotte, NC, USA

GPA: 3.88/4.0 | Aug 2023 – Aug 2025.

Skills

Programming Languages: Java, Python, JavaScript, TypeScript, Go, C, .NET.

Web Development: React, Next.js, Angular, Node.js, Redux, jQuery, Express.js, REST APIs

Software Development: Data structures and algorithms, Spring Boot, Microservices, JDBC, OOP, MVC Architecture

Databases & Cloud: AWS, Docker, SQL, NoSQL, PostgreSQL, MongoDB, Firebase, CI/CD Pipelines.

Tools & Platforms: Git, GitHub, VS Code, Eclipse, Postman, Figma

Work Experience

Teaching Assistant - UNC Charlotte   Jan 2024 - Present
- **Facilitate** weekly lab sessions for **50+ students**, leading to a **15% improvement in lab performance**.
- **Collaborated** with faculty to revamp the **Hire-a-Niner** job portal using **React, Node.js, and MongoDB**, increasing **site traffic by 25%**.
- Engineered a real-time chat system using **WebSockets** and optimized user profiles with **MongoDB indexing**, **reducing query response time by 20%** and improving platform interactivity.

Web developer Intern - Verzeo   Dec 2020 - Feb 2021
- Revamped a **React-based** web interface, improving **order tracking usability by 30%** and navigation efficiency.
- **Optimized** front-end performance by restructuring **CSS & JavaScript**, reducing **page load time by 20%** for 1,000+ daily users.
- **Led version control & deployment**, ensuring seamless feature rollouts and minimized downtime.
- Refactored CSS and layout structure to ensure seamless responsiveness, **leading to a 25% rise in mobile interactions.**

Projects

SATURDAY - AI-powered Support Assistant | **Hackathon Winner** | Devpost   Golden Hack-Oct 2024

Tech Stack: OpenAI, Node.js, Pinecone, Realtime API, LiveKit

- **Engineered an AI-driven support assistant**, reducing **troubleshooting downtime by 50%** using OpenAI's Realtime API.
- **Designed an automated backend system** with **Node.js**, integrating **AI-powered diagnostics and escalation workflows**.
- **Enhanced AI troubleshooting precision by 30%** by structuring vectorized knowledge retrieval with **Pinecone**, reducing incorrect issue resolutions.

Netflix GPT - AI-Powered Movie Platform | cineflixgpt.vercel.app

Tech Stack: React, Redux, Firebase, JavaScript, TMDB API, Gemini APIs, Tailwind CSS   Jul 2024 - Aug 2024

- Built a scalable streaming platform serving **500+ active users** with **multilingual support**.
- Implemented **Firebase authentication**, ensuring **secure access** for **200+ daily logins**.
- Devised a **GPT-powered search function**, improving **content discovery accuracy by 40%**.
- Structured **Redux store management**, enhancing **data retrieval speed by 30%**.

Eventfolio - Event Management App   Sep 2023 - Dec 2023

Tech Stack: JavaScript, Node.js, Express, Mongoose, MongoDB, Figma, ejs, MVC
- **Spearheaded** the design & development of a web app managing **200+ RSVPs**, streamlining event coordination.
- Constructed a **scalable backend** using **Node.js (MVC architecture)**, reducing code complexity by **20%**.
- **Enhanced RSVP workflows**, increasing **user retention by 25%** through improved UI/UX.

Shop for home - E-Commerce Platform   Jul 2023 - Aug 2023

Tech Stack: TypeScript, Angular, Spring Boot, JPA, REST API, SQL

- Architected a **full-stack e-commerce platform** managing **500+ products** with PostgreSQL.
- **Refined database queries** using **Spring Boot**, improving **retrieval efficiency by 20%**.
- Designed an **admin panel** for order management, enhancing operational efficiency by **15%**.