Rohan varma Gaddam

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Skills

Programming Languages: Java (OOP), TypeScript, JavaScript, Python, C

Web Development: Java (Spring Boot), Node.js, RESTful APIs, Microservices Architecture, Server-Side Development

Mobile: React Native, Familiar with cross-platform concepts and Flutter

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

Databases & Cloud: AWS, Docker, SQL, NoSQL, PostgreSQL, MongoDB, AWS S3, AWS Lambda

Software Development Practices: Object-Oriented Design, SDLC, Code Reviews, Unit and Integration Testing, CI/CD Pipelines

Tools & Platforms: Git, Version Control (GitHub), VS Code, Eclipse, Postman, Figma

Work Experience

Teaching Assistant | *UNC Charlotte , Charlotte, USA*   Jan 2024 - May 2025

- **Mentored 200+ students** on capstone projects, troubleshooting, and improving proficiency by 30% in full-stack development technologies such as **RESTful APIs**, **React**, **MongoDB**, **Node.js**, **Express**, and **JavaScript**.
- Revamped the Hire-a-Niner portal using React, Node.js, and MongoDB, boosting site traffic by 25%, and developed a **real-time chat system** with **WebSockets**, reducing query response time by 20%.
- Developed and integrated key features such as **job bookmarking**, and **advanced search filters** using React, Node.js, and MongoDB, significantly improving portal functionality and user engagement.
- **Designed** and delivered **weekly lab sessions** and interactive tutorials, **leading to a 40% improvement** in student project quality and higher engagement in practical backend development.
- Collaborated with the course instructor to **refine assignments**, and **restructure evaluation rubrics**, streamlining assessment time by 35% and **improving grading consistency**.

Projects

Fit Verse - Fitness & Wellness Platform | fitversed.vercel.app   Feb 2025- May 2025

Tech Stack: React, Typescript, Vite, Express.js, JavaScript, REST, MongoDB Atlas, Tailwind CSS, shadcn-ui

- Developed a **MERN**-based fitness platform with **JWT** auth, enabling secure access for users, and fitness experts.
- Embedded Calendly to streamline 200+ expert-client sessions and built **real-time search** filtering by name, and location.
- Engineered 20+ APIs with **Express.js**, secured uploads via **Cloudinary**, and enforced **rate limits to block 95%** spam requests.
- **Deployed** frontend and backend on **Vercel**, achieving **<1s page loads** and **100% responsiveness** using **Tailwind CSS** and **shadcn-ui**.

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** accuracy **by 30%** using vectorized knowledge retrieval with **Pinecone**, reducing errors.

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

- Developed a **Netflix clone** supporting active users with multilingual capabilities, enhancing **UX** across diverse regions.
- Implemented **Firebase authentication**, ensuring secure access and managing daily logins with reliable performance.
- Engineered a **GPT-powered search** function, improving content discovery accuracy by 40%, and optimized **Redux** store management to increase data retrieval speed by 30%.

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

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

- Architected scalable RESTful microservices using **Java**, **Spring Boot**, and **PostgreSQL** for order and payment processing.
- Implemented secure **user authentication** and role-based access control using **JWT**.
- Deployed containerized services to **AWS** using **Docker**, ensuring high availability and performance.

Education

University of North Carolina at Charlotte | **Master's in Information Technology**.   Charlotte, NC, USA

Relevant Coursework: Data Structures & Algorithms, AI-Driven Development, Software System Design, Web Application Development, Human-Centered Design   **GPA: 3.90/4.0** | Aug 2023 – May 2025.