

Manoj Konda

[Linkedin](#) | [Portfolio](#) | manoj03.work@gmail.com | [Github](#) | +1 (408) 396-4802 | San Jose, CA

Education

San Jose State University Master of Science in Software Engineering Coursework Software Systems Engineering, Enterprise Software Platform, Software Security Technologies	Aug 2025 - May 2027 <i>San José, USA</i>
Vellore Institute of Technology Bachelor of Technology in Information Technology GPA: 3.67/4.00 Coursework Data Structures & Algorithms, Object Oriented Programming, Web Technologies, Cyber Security	Sep 2021 - May 2025 <i>Vellore, IN</i>

Technical Skills

Languages: Python, Java, JavaScript/TypeScript, SQL, C++
Web Dev & DevOps: React, Node.js, Express.js, NestJS, Tailwind CSS, MongoDB, RESTful APIs, Kubernetes, Git
Security: Threat Modeling, Input Validation, Role-Based Access Control

Work Experience

CyberMind Works Full Stack Web Developer Intern (Postgres, NestJS, Next.js, MikroORM, AWS, Kubernetes, Docker)	Oct 2023 - Dec 2023 <i>Chennai, IN</i>
<ul style="list-style-type: none">Designed & implemented scalable online code execution environments for React apps using AWS EC2 and Docker, orchestrated with Kubernetes, to enable isolated execution per user session and reduce load time by 30%.Leveraged AWS SDK to deploy dynamic, user-specific React environments and automate data provisioning, reducing manual setup time by 40% and improving environment availability by 25% to enhance platform reliability.Improved API latency by 20% to ensure seamless integration with existing frontend stack and collaborated with the co-founder to design systems in a generic, scalable manner aligned with future product goals.	

Apple Developers Group Backend Web Developer (HTML, CSS, React, JavaScript, MongoDB, Node.js, Python)	Mar 2022 - Jul 2023 <i>Vellore, IN</i>
<ul style="list-style-type: none">Spearheaded development of a backend system to authenticate users and dynamically retrieve/validate Excel-based questions, streamlining screening of 200+ applicants and reducing manual workload by 90%.Boosted backend performance in recruitment portal, lowering response latency by 25%.Mitigated security vulnerabilities in recruitment portal, strengthening authentication and data integrity.	

Projects

ConfigGuardian — TypeScript, Node.js, Express.js, React, Gemini LLM APIs, Fetch.ai Agentverse	[GitHub]
<ul style="list-style-type: none">Developed LLM-powered configuration analyzer that automatically detects & prioritizes misconfigurations in Dockerfiles & Kubernetes YAMLS strengthening DevSecOps workflows with actionable security insights.Implemented Express.js backend to orchestrate Gemini model evaluations, perform dynamic severity scoring, and generate developer feedback in real time, enhancing the interpretability of configuration analyses.Integrated Fetch.ai Agentverse within the analysis pipeline to produce cryptographic provenance receipts, anchoring scan data on a decentralized ledger for verifiable, traceable, and tamper-evident reporting.	
Memory Engine — TypeScript, Node.js, Express.js, MongoDB Atlas Vector Search, LangChain	[GitHub]
<ul style="list-style-type: none">Built metadata-driven debugging memory system that recalls past production fixes via semantic search across incidents.Integrated MongoDB Atlas Vector Search with hybrid semantic and metadata ranking to match errors by service, environment, and version, improving contextual recall accuracy by 25%.Engineered context-indexing pipeline combining embeddings and structured metadata, enabling scalable retrieval over evolving production incidents and fostering continuous learning from past fixes.	
UniRide — Typescript, Node.js, Express.js, React.js, MongoDB, Socket.io, TailwindCSS, CRON Jobs	[GitHub]
<ul style="list-style-type: none">Architected a MERN-based ride-sharing platform for university students with carpool management, host-specific controls (peer reviews, host transfers, cancellations) designed to scale for 500+ concurrent ride requests.Integrated a real-time in-ride group chat system using Socket.io, allowing seamless communication between ride members; enhanced reliability with a CRON-based fallback system to auto-complete rides when users fail to do so manually.Performed threat modeling for UniRide, addressing risks in chat, authentication, and ride leader-specific controls, and applied mitigations, minimizing potential attack vectors by approximately 30% and strengthened platform reliability.	