Rohit Adittya Thumati Ravi Sankar

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SUMMARY

Full Stack Engineer with 5+ years of experience building scalable, production-grade applications in healthcare and insurance domains. Proven track record of driving automation (up to 91%) and reducing turnaround time (94%) using React, Node.js, Java Spring Boot, AWS, and distributed systems. Currently pursuing an MS in Computer Science (GPA: 3.95/4) at SUNY New Paltz (Expected May 2026), with experience leading Agile teams and building AI-driven solutions using RAG and LLMs.

TECHNICAL SKILLS

Frontend: HTML, CSS, JavaScript, TypeScript, Angular, React, RxJS, NgRx, Redux
Backend: Java, Spring Boot, Node.js, Express.js, REST APIs, Microservices, Kafka, Hibernate, Data Structures and Algorithms
AI / LLM: OpenAI API, Ollama, Retrieval Augmented Generation (RAG), LangChain, Embeddings, Vector Databases (Weaviate)
Databases / Cloud: PostgreSQL, MongoDB, SQL, AWS, CI/CD, Git, Terraform, Docker, BPMN

WORK EXPERIENCE

State University of New York at New Paltz — New Paltz, NY
Teaching & Research Assistant — Aug 2025 – Present

- Engineered an AI-powered Student Advisor Application using RAG and LangChain, reducing course recommendation time by 75% (from 1 hour to under 15 minutes) and cutting manual advising errors by 80%.
- Built automated prerequisite validation pipelines that ingested academic transcripts, generated vector embeddings, and retrieved contextually relevant curriculum data from Weaviate, minimizing AI hallucinations and grounding all responses to uploaded course documents.
- Delivered a full end-to-end conversational interface using React, Node.js, OpenAI API, and Ollama LLM, enabling professors to query course eligibility through natural language.

Athenahealth — Chennai, India
Senior Software Engineer, Full Stack Developer — Feb 2022 – Dec 2024

- Contributed to the development of a large-scale Medical Coding Application used by healthcare practices to code charges, raise clinical queries, and submit hospital claims.
- Built and integrated microservices-based automation workflow engine (IAG-Engine), increasing CPT code automation and claim resolution rates by 91% and improving turnaround time by 94% across multiple practice clients.
- Implemented rule-driven auto-population workflows by consuming structured patient data from upstream APIs, applying conditional validation logic to prefill guided questionnaires and auto-generate CPT codes when no manual intervention was required, while maintaining full auditor override trails.
- Architected an auditor feedback capture system enabling continuous coding accuracy assessment and data-driven quality improvements, contributing to reduced customer attrition and faster claim processing.
- Led Agile ceremonies, cross-functional stakeholder collaboration, and a GitHub Copilot adoption initiative, while providing on-call production support to ensure uninterrupted business continuity.
- Contributed to CI/CD pipelines to automate build, testing, and deployment workflows, reducing release errors and improving deployment speed.

Chubb — Hyderabad, India
Software Engineer, Full Stack Developer — May 2021 – Feb 2022

- Developed a scalable, reusable insurance portal within Chubb Studio adopted across multiple product lines, reducing new client deployment time and accelerating feature delivery across APAC markets.
- Assumed frontend ownership during team transition, ensuring 0% delivery disruption and 100% sprint commitment adherence; contributed reusable components to the CRUX organization-wide UI library.
- Designed and delivered a full stack insurance application for the Hong Kong market, adaptable for APAC Digital products, while mentoring a junior intern through onboarding, task assignment, and code reviews.

Cognizant — Chennai, India
Junior Software Engineer, Full Stack Developer — July 2019 – May 2021

- Built end-to-end features for a flight management portal serving airline pilots, including booking management, schedule rosters, and a rules engine for automated flight assignment, using Angular, Java Spring Boot, and PostgreSQL.
- Reduced batch job execution time by 83% (60 minutes to under 10 minutes) by identifying performance bottlenecks and refactoring the pipeline, unblocking daily QA workflows.
- Improved a high-traffic flight data API, cutting page load time from 30 seconds to under 1 second by refactoring the backend response model after evaluating three competing POC approaches. Earned client recognition for improving system reliability and performance.
- Collaborated on a Google Dialogflow NLP proof of concept to automate customer inquiries for a US-based client, reducing manual intervention for common queries and improving response turnaround time.

EDUCATION

State University of New York at New Paltz — New Paltz, NY
Master of Science in Computer Science — GPA: 3.95/4 — Jan 2025 – **Expected May 2026**

Thiagarajar College of Engineering — Tamil Nadu, India
Bachelor of Technology in Information Technology — GPA: 3.26/4 — July 2015 – April 2019