

Rohit Aditya Thumati Ravi Sankar

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SUMMARY

Full Stack Engineer with 5+ years of experience building scalable, production grade systems in health-care and insurance domains. Strong background in React, Node.js, Java Spring Boot, AWS, and distributed systems. Currently pursuing an MS in Computer Science at SUNY New Paltz.

SKILLS

Frontend: HTML, CSS, JavaScript, Angular, React, RxJS, NgRx, Responsive Design

Backend: Java, Data Structures and Algorithms, Spring Boot, Node.js, Express, Hibernate, REST APIs

AI / LLM: OpenAI API, Ollama LLM, Retrieval-Augmented Generation (RAG), Embeddings, LangChain, Vector Databases (Weaviate)

Other: BPMN, SQL, MongoDB, PostgreSQL, Git, AWS

WORK EXPERIENCE

State University of New York at New Paltz, New Paltz, NY, USA

(Aug 2025 - Present)

Teaching & Research Assistant

- Built a Student Advisor Application to assist professors in evaluating student eligibility for courses by analyzing academic transcripts, completed coursework, and department specific prerequisite structures.
- Owned the end to end design and implementation of the application, from document ingestion and embedding pipelines to conversational query handling.
- Significantly reduced the time required for professors to recommend suitable courses by validating complex prerequisite chains and aligning course selection with students' academic progress and interests.
- Built an AI-powered conversational interface that allows professors to query course eligibility and academic requirements through natural language interactions.
- Implemented Retrieval-Augmented Generation (RAG) by chunking transcripts and curriculum documents, generating embeddings, and retrieving contextually relevant data from a vector database to minimize hallucinations and ensure responses remain grounded to the uploaded documents.
- **Tech Stack:** OpenAI API, Ollama LLM, RAG, Node.js, React.js, Weaviate DB, Vector Databases, Embeddings, LangChain

Athenahealth, Chennai, India

(Feb 2022 – Dec 2024)

Senior Member of Technical Staff — Full Stack Developer

- Developed a Medical Coding Application to code charges, raise queries, and submit hospital claims on behalf of practices.
- Built “iag-engine” library enabling coders to determine CPT codes through guided workflow for encounters, improving coding accuracy and efficiency.
- Implemented automation features leveraging iag-engine to streamline CPT code generation, reduce manual effort and improving turnaround time.
- Designed functionality to capture auditor feedback for continuous coding accuracy assessment.
- Automated all workflows using BPMN, ensuring efficient process orchestration.
- Utilized a diverse tech stack: React, Node.js, Java Spring Boot, AWS, and Kafka.

Chubb, Hyderabad, India

(May 2021 – Feb 2022)

Software Engineer — Full Stack Developer

- Developed a scalable insurance application portal within Chubb Studio that can be reused across multiple products, improving development efficiency.
- Collaborated with the CRUX (UX Core) Team to design and implement reusable UI components and contributed to shared libraries used organization wide.
- Designed and developed a full stack insurance application for the Hong Kong market, adaptable for new APAC Digital products.
- Enhanced and maintained existing insurance platforms by adding new features and improving reusability for faster deployment across new clients.

Cognizant, Chennai, India

(July 2019 – May 2021)

Jr. Software Engineer

- Developed a flight management portal for pilots to efficiently manage bookings and cancellations.
- Contributed to end to end feature development across frontend and backend layers, collaborating with cross functional teams to deliver production ready solutions.
- Conducted performance optimization through detailed analysis and multiple Proofs of Concept (PoCs), selecting and implementing the most effective solution that reduced batch job execution time from **1 hour to 10 minutes**.
- Collaborated on a POC using Google Dialogflow (NLP) to automate customer inquiries for a US based project, reducing manual intervention and efficiently responding for common queries.

EDUCATION**State University of New York at New Paltz, New Paltz, NY**Jan 2025 - **Expected May 2026***Master of Science in Computer Science, Current GPA: 3.95/4***Thiagarajar College of Engineering, Tamil Nadu, India**

July 2015 - April 2019

Bachelor of Technology in Information Technology, GPA: 7.52/10