

# Rohit Aditya Thumati Ravi Sankar

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## SUMMARY

Full Stack Engineer with 5+ years of experience building scalable, production-grade web applications in healthcare and insurance domains. Strong background in React, Node.js, Java Spring Boot, REST APIs, SQL/NoSQL databases, AWS, and distributed systems. Currently pursuing an MS in Computer Science at SUNY New Paltz.

## SKILLS

**Frontend:** HTML, CSS, JavaScript, TypeScript, 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)

**Databases / Cloud / Other:** SQL, MongoDB, PostgreSQL, AWS, BPMN, Git

## 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.
- 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.
- Developed 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 keep responses grounded in uploaded documents.
- **Tech Stack:** OpenAI API, Ollama LLM, RAG, Node.js, React, Weaviate, 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 the "iag-engine" library enabling coders to determine CPT codes through guided workflows for encounters, improving coding accuracy and efficiency.
- Implemented automation features leveraging iag-engine to streamline CPT code generation, reduce manual effort, and improve turnaround time.
- Designed functionality to capture auditor feedback for continuous coding accuracy assessment.
- Automated workflows using BPMN to ensure efficient process orchestration.
- Utilized React, Node.js, Java Spring Boot, AWS, and Kafka across services for full stack development and integration.

**Chubb, Hyderabad, India**

(May 2021 – Feb 2022)

*Software Engineer — Full Stack Developer*

- Developed a scalable insurance application portal within Chubb Studio that could 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 manage bookings and cancellations across front-end and backend layers.
- Contributed to end-to-end feature development, collaborating with cross-functional teams to deliver production-ready solutions.
- Performed performance optimization through analysis and Proofs of Concept (PoCs), reducing batch job execution time by **83%**.
- Collaborated on a proof of concept using Google Dialogflow (NLP) to automate customer inquiries for a US-based project, reducing manual intervention 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*