

Chetanya Anil Rathi

(315)278-3090 / rathi.chetanya@gmail.com / [GitHub](#) / [LinkedIn](#) / [Portfolio](#)

Summary

Innovative Software Developer specializing in Generative AI, LLM applications, and intelligent agent systems. Experience in building RAG pipelines, Lang Chain/LangGraph architectures, and AI-integrated full-stack solutions using Python, React.js, and cloud platforms. Skilled in vector databases, embeddings to design scalable, context-aware AI products that enhance automation and user experience.

Education

Syracuse University , Syracuse, New York, United States	GPA: 3.5/4
<i>Master of Science in Computer Science</i>	May 2026
Coursework: Machine Learning, Operating Systems, Algorithms, NLP, DBMS, Architecture	
Savitribai Phule Pune University , Pune, India	GPA: 3.7/4
<i>Bachelor of Technology in Artificial Intelligence and Data Science</i>	May 2024
Coursework: Cloud Computing, Web Technology, Computer Networks, Deep Learning	

Technical Skills

Programming: MERN Stack JavaScript (ES6+), Typescript, C++, HTML5, CSS3, Java, Python, PHP, Git,
Gen AI Tools: Lang Chain, RAG, Lang Graph, Gemini, Vertex AI, Memori, JWT, BERT
Backend & DB: Nodejs, Flask, REST APIs, SQL, MongoDB, PostgreSQL, RAG, Chroma DB, Fast API
DevOps & Cloud: AWS Lambda, AWS RDS, AWS S3, CI/CD Pipeline, n8n,

Professional Experience

Software Developer Intern	Jan 2024 - May 2024
<i>Main 10 – Maintenance Management Tool</i>	Pune, India
<ul style="list-style-type: none">Engineered an AI-powered maintenance management platform using Lang Chain, Fast API, reducing data retrieval time by 25%.Integrated AWS S3 for scalable cloud storage, enhancing system resilience and reducing backup recovery time by 40%Automated workflows using AWS Lambda and implemented AWS RDS (PostgreSQL), enhancing real-time alerting and increasing query accuracy by 35%.	
Software Engineering Intern	June 2023 - Dec 2023
<i>Hum Aspen Wellness Private Limited</i>	Pune, India
<ul style="list-style-type: none">Enhanced the Now Zone Life wellness app by integrating LLM-driven personalized insights using Lang Chain and Gemini API, increasing user engagement by 35%.Optimized NoSQL (MongoDB) databases, improving data accuracy by 50% and reducing query execution times by 30%Automated and executed 150+ test cases, identified 30+ critical bugs, and raised overall software quality by 30%	

Projects

EECS Hackathon, Syracuse University / <i>Flask, Python, Artificial Intelligence, Machine Learning</i> (Link)	Mar 2025
<ul style="list-style-type: none">Award-winning (1st Prize) automated grading system that cuts manual grading time by 60%Built a Flask web app to process 500+ assignment submissions and NLP-based expertise matching scheduling	
Context-Driven Agentic RAG System / <i>LangGraph, Lang Chain, Gemini, OpenAI</i> (Link)	Oct 2025
<ul style="list-style-type: none">Architected an intelligent, multi agent RAG system using python, Lang Chain and Lang Graph, featuring a Gemini-powered router that automatically delegates tasks to specialized agents for complex reasoning, simple retrieval.Implemented advanced "Pre-Act" RAG for dynamic multi-step planning and "Corrective" RAG with document grading and real-time web search fallback, all powered by a Chroma DB vector store.	
Virtual AI Trainer / <i>Fast API, React, Gemini, Chart.js, OAuth2.0, JWT</i> (Link)	Sep 2025
<ul style="list-style-type: none">Integrated Google Gemini (Vertex AI) to generate personalized insights and fitness recommendations, analyzing logged health data for actionable progress tracking.Designed and integrated interactive dashboards using Chart.js and optimized SQLite + SQL Alchemy storage, improving data visualization and user engagement by 45%.	
Lenox AI - Chatbot / <i>React, Flask, RAG, Gemini</i> (Link)	Aug 2025
<ul style="list-style-type: none">Built an intelligent chatbot that answers personalized questions about my resume and experienceIntegrated Lang Chain, Google Vertex AI, Chroma DB to enable semantic retrieval and accurate query matching	
Tweet AI-Generated Text Detection / <i>BERT, Python</i>	May 2025
<ul style="list-style-type: none">Deployed a BERT-based classifier to distinguish AI-generated tweets from human-written text with 96.81% accuracyImplemented advanced preprocessing, tokenization, and fine-tuning techniques to optimize model performance and reliability	

Extracurricular Activities

- Project Lead for the AI Club at the EECS Department, Syracuse University.
- Published Paper - Voice Cloning and Forgery Detection using Wave GAN and Spec GAN, IEEE ([Link](#))