

Raja Sekhar Thammineni

Python & GenAI Developer

Relevant experience: ~6 years

Total experience: ~6 years



+91 9440477643

rajashekhar.thammineni@gmail.com

Bengaluru

Summary

Python & GenAI developer with ~6 years shipping production software. Built live AI tutors, real-time transcript systems, NL-to-SQL fleet analytics, and enterprise AI integrations using Python, LLMs, FastAPI, and modern web technologies.

Work Experience

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Jun 2022 - present

Software Engineer - III

- Lead the GenAI fleet analytics initiative end to end — a natural-language-to-SQL system that lets business users query fleet data without SQL knowledge.
- Delivered an upload-message feature for ZIP and XML files, reducing file submission time by ~75% and decreasing user errors and support load.
- Built a web-based XML playground (React + Node.js) for message validation, enabling clients to validate XML payloads without sending to the processing stream.
- Developed an 'acknowledged errors' page to mark recurring business/schema errors as acknowledged, suppress duplicate alerts, and reduce operational noise; integrated acknowledgements with monitoring and audit logs and added role-based access for SPOC workflows.
- Launched transcript and AI tutoring features — transcript reduced meeting recap time by ~50%; the Gemini AI tutor improved learning speed by ~42% and reduced repeated questions by ~50%.
- Led front-end performance optimizations leveraging browser internals and network stack knowledge to improve load times by up to ~30%.
- Mentored junior engineers and actively participated in design and code reviews to improve code quality and delivery cadence.

TATA CONSULTANCY SERVICES

Nov 2020 - May 2022

UI Developer

1.6 Years

- Mentored junior engineers and led technical design/code reviews to improve code quality and delivery cadence.
- Optimized front-end performance using browser internals and network profiling, improving load times by up to ~30%.
- Designed and implemented responsive, reusable UI components to ensure consistent experiences across desktop, tablet, and mobile.
- Identified and resolved data-handling inefficiencies, improving data throughput and reducing client-side memory usage.
- Collaborated with backend teams to decompose complex UI flows into actionable stories and ensure timely feature delivery.

Key Projects / Involvements

- Successfully implemented the QR feature, a pivotal functionality enhancing the shopping experience and streamlining the checkout process for users, resulting in a 20% increase in user engagement
- [Commenced contributions to open-source projects to foster collaboration, enhance skills, and contribute to the collective advancement of the tech community](#)
- Demonstrated the ability to take initiative and drive the project forward with minimal supervision
- Implemented advanced functionality for an individual volume table, enhancing user experience with sorting, item selection, and cart management. Achieved a 50% improvement in data manipulation efficiency and ensured a 85% smoother interaction during the process.

Certificates and Awards

- [Claude Certified Architect – Foundations](#)
- [GCP Associate Cloud Engineer](#)
- [GCP Professional Cloud Architect](#)
- [GCP Professional Cloud Developer](#)
- Excellence Award for playing crucial role in bug fixes and enhancements for Hybris based eStores upgrade

Technical expertise

Python	
GenAI / LLMs	
SQL	
JavaScript / ES6	
TypeScript	
React	
React Native	
Next.js	
FastAPI	
Node.js / Express.js / Fastify	

Skills / Exposure

Algorithms	Data Structures
WebSockets	Kafka
XML/XSD Validation	
Redux / Redux Toolkit	

Methodology/Approach

Component based architecture	
Agile methodology	Design Patterns
Test Driven Development	MVC

Tools

VS Code	Jira	Postman	Git
NPM	Docker		

Education

B Tech - Electronics and Communication Engineering	
Anantha Lakshmi Institute of Technology and Sciences, Anantapur	Jun 2017 - Sep 2020