Rohit Yadav

Software Engineer

🏠 India   ⭘ GitHub   in LinkedIn   ✉ yrohit1805@gmail.com   📞 +91 92203 19055

Experience

AMADEUS | Software Development Engineer Intern
Jan 2025 – Present | Bangalore,India

→ Developed a **secure Browser extension** with **Admin portal** enabling customized feedback collection for specific applications and user groups, capable of **20K+ daily interactions** with **ServiceNow/JIRA integration**.

→ Engineered a **fine-tuned LLM pipeline** that analyzes feedback sentiment and auto-generates concise action items, reducing insight generation time by **65%** while improving categorization accuracy to **90%**.

→ Implemented an **intelligent routing system** with role-based workflows, resulting in **40% faster** issue resolution and automated assignment across departments.

TECHCURATORS | Technical Project Associate Intern
Feb 2024 – Jan 2025 | Bangalore, India

→ Engineered **ContextFusion RAG framework** integrating , BM25, TF-IDF/Word2Vec, and Sentence-BERT embeddings, improving retrieval accuracy by **85%**.

→ Developed **multi-model question generation platform** using GPT-3.5/4 and custom fine-tuned PyTorch models, deploying via AWS to serve **200+ daily users** across departments.

→ Built **AI-driven tools** to boost team productivity with Python, FastAPI, Docker containers, increasing team velocity by **70%**.

AVAINTERN | Software Engineer Intern
Oct 2023 – Jan 2024 | Remote

→ Architected **Full-Stack Applications** using the **MERN stack** and **AWS**, implementing advanced caching strategies that reduced cold-start latency by **60%** while supporting **10,000+ concurrent users**.

→ Engineered **query denormalization** and **compound indexing** for databases within an AWS-backed environment, optimizing data access for **10K+ daily transactions** and reducing read costs by **95%**.

→ Developed a fully **automated CI/CD pipeline** with canary deployments, distributed tracing, and automated rollbacks on AWS, slashing deployment failures by **85%**.

Projects

SMART WHEELCHAIR WITH AAC & HOME AUTOMATION

→ Engineered a **multimodal accessibility system** combining voice, biosignal, and eye-tracking interfaces to control computer functions and home appliances using TensorFlow and OpenCV.

→ Developed an **intuitive React-based GUI** with customizable dashboards and MQTT/WebSocket protocols enabling seamless device control.

GOOGLE CALENDAR CHROME EXTENSION GitHub Link

→ Engineered a feature-rich productivity extension integrating **AI-powered natural language event creation**, optimized schedule generation, and Google Calendar integration.

→ Implemented **data-driven productivity insights** via custom website usage tracking and intelligent website blocking.

EVENT HUB: AI-DRIVEN EVENT MANAGEMENT GitHub Link

→ Architected a **high-performance RAG system** achieving sub-50ms query latency through optimized vector embeddings and Elasticsearch integration.

→ Developed a **containerized microservice architecture** with React (TypeScript) frontend and FastAPI backend, enabling seamless horizontal scaling.

Achievements

★ **IEEEXtreme:** Ranked **18th nationally** and **151st globally** among 17,000+ coders

★ **CodingNinja: 1st place** in Weekly Contest **#102** with consistent top-50 rank

★ **GDSC CP Lead:** Mentored **500+ students** in competitive programming

★ **Hackathon Wins:** Led teams to **10+ top finishes** through rapid prototyping

★ **DSA:** Solved **1000+ problems** across major platforms

Skills

PROGRAMMING

Python, JavaScript, Bash
Java, C++, C, Flutter

FRAMEWORKS

React.js, Redux, Node.js
Express.js, FastAPI, Django

CLOUD & DEVOPS

AWS, Docker, Kubernetes
CI/CD, PostgreSQL, MongoDB
Redis, Neo4j, MySQL

MACHINE LEARNING

TensorFlow, PyTorch,
LLM, RAG, CV

Education

VEL TECH UNIVERSITY
B.Tech in Computer Science and Engineering
2021 – 2025 | Chennai, India
CGPA: 8.9 / 10.0

NAVY CHILDREN SCHOOL
12th Grade, CBSE
2021 | 95%

Research Paper

Smart Helmet with Crash and Wear Detection   Springer Publication

ThresholdedReLU Orthogonal Layer CNN   IEEE Publication