

Ramachandra Yerramsetti in

Software Engineer
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SUMMARY

Full-Stack Engineer with 4+ years of experience building production systems across Python, TypeScript, and AWS. Experienced in designing AI-orchestrated pipelines and agent-driven workflows using LangGraph, FastAPI, and event-driven architectures (RabbitMQ, SQS/SNS). Strong background in LLM orchestration, autonomous system observability, and shipping customer-facing products powered by generative AI.

EXPERIENCE

- **Software Engineer** Hartford, CT
Infosys Public Services(DOL-New Jersey) June 2025 – Present
 - **Wage Compliance Platform** 📧: Owned the full backend for a state wide compliance system, designing and shipping 40+ REST API endpoints with FastAPI and **TypeScript** friendly patterns, secured with Auth0 authentication.
 - **Infrastructure as Code(IAC)**: Engineered scalable distributed AWS infrastructure using Terraform to provision 15+ Lambda functions, SQS/SNS messaging queues, and SES/SMTP email notification system, enabling event-driven asynchronous background processing for payroll submission notifications and contractor project alerts.
 - **Observability & Feedback Loops**: Automated operational workflows with EventBridge schedulers, Kinesis Firehose log streaming, API Gateway custom authorizers, and CloudWatch alarms, building system-wide observability and debugging infrastructure that reduced manual operations by 80% and improved incident response times.
 - **Job Recommendation Engine**: Building an ML based job recommendation engine end to end as the sole developer, taking user resumes and matching them to relevant SOC occupation codes defined by the State of Arkansas.
- **Research Software Engineer** Farmington, CT
UCONN Health June 2024 – May 2025
 - **AI-Driven Pipeline**:: Engineered an autonomous image classification pipeline using a serverless Django backend with custom PyTorch models on AWS Lambda, achieving 95% accuracy, replacing manual lateral flow reader analysis with an AI-orchestrated workflow.
- **Full Stack Developer** Hyderabad, India
TATA Consultancy services(Client: Belgium Train) May 2022 – July 2023
 - **Excursion Ticket booking** 📧: Developed backend microservices using **FastAPI** and **Python** with event-driven workflows and **RabbitMQ** integration, supporting real-time user mobility features and platform responsiveness for a national rail booking system.
- **Full Stack Developer** Chennai, India
Cognizant Technology Solutions(Client: Merck & Co) June 2019 – Apr 2022
 - **Pet Owners Portal** 📧: Shipped a full stack **React** portal that let pet owners find veterinarians and receive personalized health newsletters. Integrated REST APIs with AWS SQS for scalable message handling. Delivered the whole thing with a 4 person team in 6 months during COVID to help improve access to pet healthcare.

SKILLS

- **Programming Languages**: Typescript, Python, SQL, C
- **Frontend**: React, React Native(Expo), NextJs, Responsive UI, react testing library
- **Backend and Infrastructure**: Node.js, FastAPI, REST APIs, Docker, CI/CD, GitHub Actions
- **Databases**: PostgreSQL, MongoDB, DynamoDB, Cassandra, ChromaDB
- **AI & LLM**: LangChain / LangGraph (agent orchestration), RAG Pipelines, Model Context Protocol (MCP)

AI PROJECTS

- **NYCIntellinews** 📧: AI-generated video news summaries using LLaMA4 and Tavus in 24 hours at Llamacon2025.
- **ExpenseTrack.AI** 📧: Expense Tracker with MCP chatbot provides personalized financial insights based on expenses.

EDUCATION

- **University of Connecticut** Storrs, CT
Master of Engineering in Computer Science; GPA: 3.81 Aug 2023 – May 2025