

# Apoorav Rao

AI Agent Developer | LLM Integration | Serverless Backend

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## SUMMARY

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Computer Science B.Tech student graduating June 2026 with hands-on experience building production agentic AI systems — multi-step tool-calling loops, autonomous workflow agents, and LLM-powered data pipelines on AWS. Proficient in Python, OpenAI & Anthropic function calling, LangChain/LangGraph, RAG, and serverless infrastructure (Lambda, DynamoDB, API Gateway). Proven ability to identify manual workflows and replace them with reliable, production-grade agents featuring proper failure handling and human-in-the-loop design.

## PROFESSIONAL EXPERIENCE

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### Gen & Agentic AI Intern

Jun 2025 – Mar 2026

Group Bayport (Caterpillar Signs Pvt. Ltd.)

Gurugram, Haryana

- **Built an LLM-powered support-ticket pipeline** ingesting CRM data from Freshdesk and Salesforce APIs; ran zero-shot classification and extractive QA on each ticket via LangChain, then loaded structured results into PostgreSQL (AWS RDS) through DBT, orchestrated by Apache Airflow on a 30-minute batch cycle.
- Processed **1,200+ tickets/hour (>500K total)** and surfaced a live Zoho Analytics dashboard, replacing a manual audit that capped at ~150 tickets/day — **improving auditing efficiency by 400%**.
- Insights drove fixes that **cut ticket volume 15%** over six months and **surfaced 20%+ more recurring issues** through automated categorization.

## PROJECTS

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### TrainFlow — AI ultra-running coach | [github.com/apoorav21/TrainFlow](https://github.com/apoorav21/TrainFlow)

2026

Swift, Python, AWS Lambda, DynamoDB, API Gateway, CDK, Cognito, OpenAI Function Calling

- An iOS coaching app that **dynamically adapts daily training plans** from Apple HealthKit recovery signals (HRV, sleep, resting HR) — dialing intensity up or down based on readiness. Used daily for my own 100-mile ultramarathon training.
- Backed by a **serverless agentic loop** (24 Lambdas, 6 DynamoDB tables, CDK stack): a context builder pre-loads health/training snapshots, a tool executor dispatches up to 5 function-calling rounds per request, and a secondary model writes plain-English summaries. User IDs are read from Cognito JWT claims, never request bodies.

### Profile Agent — autonomous personal-branding agent | [github.com/apoorav21/profile-agent](https://github.com/apoorav21/profile-agent)

2026

Python, GPT-4o, GitHub API, LinkedIn REST API, LaTeX, SQLite, macOS launchd

- An agent that monitors GitHub for new repos, analyzes each project (README, languages, screenshots), then generates a LinkedIn post, edits a LaTeX resume, and updates the GitHub profile README. It reads the full history of prior posts so tone rotates and content never repeats.
- Runs daily via macOS launchd; resume compiled to PDF with tectonic and **automatic project rotation** to hold a one-page constraint.

## TECHNICAL SKILLS

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**Agentic AI:** OpenAI & Anthropic Function Calling, LangChain, LangGraph, Multi-step Tool Execution, RAG, Prompt Engineering, Agent Evaluation

**Cloud & Backend:** AWS (Lambda, DynamoDB, API Gateway, CDK, Cognito, RDS, S3, Bedrock), REST APIs, Python

**Data & Pipelines:** ETL/ELT, Apache Airflow, DBT, PostgreSQL, SQLite, Pandas, Vector DBs (pgvector)

**Languages & Tools:** Python, Swift/SwiftUI, Git, GitHub API, LinkedIn API, PyGithub, Playwright

## ACHIEVEMENTS

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Secured 2nd prize in a collegiate hackathon for problem-solving, coding, and innovation.

Finalist (top 10 teams) in a national hackathon organized by IIM Ahmedabad and Ashoka University.