

Aryan Sharma

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2nd-year Computer Science student specialising in backend engineering and AI integrations. Experienced in building production-style REST APIs, serverless cloud architectures on AWS, and AI-powered applications using Python and FastAPI. Strong interest in developer tools, AI automation, and startup engineering. Seeking a backend or AI engineering internship to contribute to a real product team from Day 1.

TECHNICAL SKILLS

Languages: Python, JavaScript (Basics), SQL, Golang (Beginner)

AI & Integrations: OpenAI API, LangChain (learning), RAG pipelines, AI-powered backend systems

Backend & APIs: FastAPI, Flask, GraphQL, REST APIs, JWT Authentication

Cloud & AWS: AWS AppSync, Amazon DynamoDB, Amazon Cognito, AWS Lambda, Amazon SQS

Databases: PostgreSQL, MySQL, SQLite, DynamoDB

Tools: Git, GitHub, Docker (Basics), VS Code, Postman, Railway, Render

PROJECTS

Revv — Notification Intelligence Platform | [GitHub](#) · [Live Demo ↗](#)

Python · OpenAI API · GitHub API · REST APIs

- Built a real-time system that filters and prioritises GitHub notifications, classifying PRs, issues, and mentions by urgency using AI.
- Integrated OpenAI API to classify notification urgency based on content context, reducing developer noise by surfacing only high-priority updates.
- Designed a scalable REST API architecture with efficient event handling to support real-time notification processing at scale.

Serverless Social Backend on AWS | [GitHub](#)

AWS AppSync · Amazon DynamoDB · Amazon Cognito · AWS Lambda · Amazon SQS · GraphQL

- Built a scalable serverless social backend using AWS AppSync with a GraphQL schema covering users, follow requests, notifications, and subscriptions.
- Implemented AppSync JS resolvers with DynamoDB tables; integrated Amazon Cognito for secure authentication and API access control.
- Built asynchronous notification workflows using AWS Lambda triggered by Amazon SQS for reliable event-driven processing.

Slot Swapper API | [GitHub](#)

FastAPI · JWT Authentication · PostgreSQL · Async Python

- Built a secure scheduling API with JWT authentication, role-based access control, and async database operations using FastAPI.
- Developed slot creation, conflict prevention, and swap workflows with a modular backend architecture designed for extensibility.

AI Document Q&A API (In Progress)

Python · FastAPI · OpenAI API · LangChain · RAG · Railway

- Building a REST API that answers natural language questions over uploaded documents using retrieval-augmented generation (RAG) with LangChain.
- Implementing document chunking, embedding generation, and semantic similarity search before querying the LLM for accurate context-aware answers.

EDUCATION

B.Tech — Computer Science | 2nd Year | Delhi, India | 2025 – 2029

- Independently studying backend engineering, cloud architecture, and AI systems alongside coursework.
- Built all projects self-directed — no guided curriculum, no team — demonstrating initiative and ability to self-learn and ship.

ACHIEVEMENTS & INTERESTS

- Built a production-style serverless backend on AWS (AppSync + DynamoDB + Cognito + Lambda + SQS) independently in 1st year of college.
- Shipped Revv — a live AI-powered developer tool integrating OpenAI API and GitHub API — available at project-aawll.vercel.app.
- Actively learning RAG pipelines, LangChain agents, and agentic AI systems — building in public on GitHub.
- Interests: AI automation, developer tools, backend systems, startups, system design, and building products people actually use.