

Ankit Poudel

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Skills

Programming Languages: Python, SQL, Bash, HTML, CSS, JavaScript

Frameworks & Libraries: Django, Django REST Framework, FastAPI, Celery, HTMX

Databases & Caching: PostgreSQL, MySQL, Redis

DevOps, Tools & Deployment: Git, GitHub, Docker, Nginx, GitHub Actions, Postman, Pytest

Data Extraction & Automation: BeautifulSoup, Playwright, n8n

Experience

Frontend Engineer, CodeSQAD – Reston, VA (Remote)

May 2024 – July 2024

- Built a real-time chat feature using Socket.io and Next.js to enable seamless user communication, improving interactivity and responsiveness.
- Improved frontend state management by integrating Redux Toolkit, reducing component complexity and enhancing maintainability.
- Integrated RESTful APIs into multiple components, enabling dynamic data rendering and boosting feature completion rate.
- Collaborated in agile sprints and code reviews to debug and optimize React-based UIs, improving load speed and UX across major views.

Projects

Live-Deployed Django eCommerce Platform

[Code](#)

Django, HTMX, Stripe API, Celery, Redis, Docker, PostgreSQL, Nginx, Gunicorn

- Developed a full-stack eCommerce platform with dynamic cart and checkout UI using HTMX for in-page updates.
- Integrated Stripe API for secure and seamless payment processing with webhooks and session handling.
- Used Celery + Redis for background task execution including order confirmation emails and async workflows.
- Containerized the app with Docker and deployed via Gunicorn + Nginx on DigitalOcean ensuring high availability and fault tolerance.

RAG-Based Interview Preparation Tool

[Code](#)

FastAPI, LangChain, FAISS, Google Gemini API, Docker, PostgreSQL, Next.js, Redux

- Built a FastAPI backend integrating LangChain for Retrieval-Augmented Generation (RAG) for personalized interview prep using LLMs.
- Built an embedding pipeline to convert resumes and job descriptions into vector representations and store them in FAISS vector database for semantic search and retrieval.
- Developed async API routes delivering context-aware responses via dynamic document retrieval and LLM calls.
- Designed a modular backend architecture supporting future integration with third-party APIs and automation tools.

Real-Time Chat Application with Django Channels

[Code](#)

Django Channels, WebSockets, Redis, Daphne, HTMX, PostgreSQL

- Built a real-time chat app with Django Channels and WebSockets for low-latency, bidirectional communication.
- Utilized Redis as the message broker to manage real-time message delivery and event coordination.
- Employed Daphne ASGI server to serve asynchronous WebSocket connections alongside HTTP.
- Leveraged PostgreSQL as the primary backend database for user data and message persistence, while using HTMX for dynamic frontend updates.

Education

National College of Computer Studies – Bachelor's of Information Management

March 2026 (Expected)

Relevant Coursework: Web Programming, Data Structure and Algorithms, Database Management System, Operating System, Computer Networking, Software Design and Development