Ankit Tiwari

Backend-heavy full-stack developer, I love to build things from scratch, always creating projects to learn & tackling tasks with dedication.

Selected Projects (View all Projects⁷)

I started building backend projects with Python in my second year of college, focusing on real-world features inspired by production-grade systems.

$\pmb{\mathsf{Backend}^{(\mathsf{Live}\;\mathsf{Link}^{\!\!\mathsf{A}})}\;(\mathsf{Source}\mathscr{O})\;(\mathsf{Documentation}\,\,\widehat{}_{\!\!\!\!\!\!\boldsymbol{\Theta}})}$

- User authentication and management system built with FastAPI. It features
 JWT-based authentication, secure password hashing with Argon2, OTP
 verification using Redis, and social login integration using OAuth 2.0 (Google
 and GitHub), SQLAlchemy for structured database operations with
 PostgreSQL, Pydantic for validation, and includes a modular structure for
 maintainability.
- Asynchronous operations, robust error handling, and a clean architecture with dependency injection ensure high performance and reliability.
- Built using FastAPI, & PostgreSQL, Redis, also fully Dockerized.

Also, I created other backend projects using Go (Gin) and Java (Spring Boot), implementing modular services and simulating a production-grade microservices architecture.

CRUDAPI(Source Ø) (Documentation

- Built with Spring Boot, Spring Security for authentication and JWT-based authorization, with Spring Data MongoDB.
- Implements RESTful APIs for user, group, task, and invitation management.
- Modular service layer for business logic, including user, group, task, notification, and email services.
- Email integration for notifications and invitations using Spring Mail.
- CI/CD supported with custom JWT filter and utility classes.

GoJWT(Source@) (Documentationa)

- I was learning Golang so I created this project, A JWT-based authentication service in Go, implementing user registration, login, and token validation.
- With efficient HTTP routing, password hashing, and JWT handling.

I've built several frontend projects (Mostly using Next.js) with a strong focus on **technical functionality**. When I work on products used at scale, I look forward to investing more in refined UI and user experience.

$\textbf{Accounts}^{(\text{Live Link}^{\nearrow}) \text{ (Source}\mathscr{D}) \text{ (Documentation}}$

- A full-stack authentication system built using Next.js's core strengths ->
 Utilized Next.js routing, API routes, and middleware for efficient request
 handling and navigation and handles login, logout, password reset, email
 verification, and session management using cookies and API routes.
- JWT-based authentication, and social login via OAuth 2.0. Also supports automatic token refresh, nookies for server-side and client-side cookie management, custom RESTful APIs for user data retrieval, updates, and authentication.

 VS Code extension that detects when a Next.js project is opened and automates the setup. It runs the necessary script and launches the localhost server in the default browser automatically.

LockedIn(Live Link^N) (Source 𝒞) (Doc 🖹) – Hackathon Winner

- Advanced task management with flexible and challenging time tracking.
- Simplified User Interface to not waste time in managing your tasks.

$\textbf{CertificateGenerator}^{(Live\ Link^{\centsymbol{7}})\ (Source\mathscr{S})\ (\underline{\textbf{Doc}\underline{\textbf{S}}})}$

Generate, verify, and share certificates Instantly with Unique ID-based verification system

My Portfolio(unkit.site7)

Github/anktw7

Gmail/at792226@gmail.com7

Skills

Programming Languages

Python, C/C++, Java, TypeScript, Golang, JavaScript, OCaml

Libraries, Frameworks and Databases etc.

Databases: MySQL, PostgreSQL, MongoDB

Frameworks: FastAPI, Spring Boot, Gin, Next.js, React.js, Tailwind CSS

DevOps Tools: Docker, Kubernetes, Redis, CI/CD (Jenkins, GitHub Actions)

Systems & Tools: Microservices, REST & GraphQL APIs, Distributed Systems, Load Balancing, Caching, Concurrency, Multithreading, Kubernetes, WebSockets, CI/CD Pipelines

Programming & DSA

Leetcode? Solving selected problems daily.

Education

Kurukshetra University

Bachelor of Technology from S.I.E.T. Nilokheri in Computer Science and Engineering (2022-2026). Studied Algorithms, Data Structures, Operating Systems, Computer Architecture, OOPs, Databases, Linux and Unix Operating Systems, Compiler Design & Computer Networks etc.

Interests

Apart from backend development, I am currently learning AI and ML and also planning to build a large language model(QSAR²) in future, which will remember history and generate parameters dynamically, and persist state across chats for personalized and adaptive responses.

- I love playing Football
- Quantitative research
- algorithmic problem solving,
- machine learning, and LLMs

Open Source & Community

The majority of my projects are opensource, and I actively contribute to both my own repositories and external ones. I'm passionate about collaborative development and believe in giving back to the community through clean, reusable, code.