

# AYUSH UPADHYAY

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LinkedIn

GitHub

Portfolio

## Technical Skills

**Languages:** Python, JavaScript (ES6+), TypeScript, C++ (C++17)

**Backend & APIs:** Node.js, Express.js, FastAPI, Django, REST APIs, JWT Authentication, Google OAuth

**Data & Databases:** PostgreSQL, MySQL, MongoDB, Redis, SQL

**Frontend:** React.js, Next.js, Tailwind CSS

**Cloud & DevOps:** Docker, CI/CD (GitHub Actions), AWS, Linux, Git

**Testing:** Unit Testing, API Testing, Integration Testing (Pytest)

**Core CS:** Operating Systems, DBMS, OOPs, Computer Networks

## Projects

**SmartBanking System (FinSphere)** — Full Stack Banking Platform

June 2025

- **Tech Stack:** Next.js, TypeScript, Node.js, REST APIs, PostgreSQL, Google OAuth, Vercel, Docker, GitHub Actions
- Designed and developed a secure full stack banking-style application supporting user onboarding, dashboards, and transactional workflows.
- Built RESTful backend services and data models using PostgreSQL to support financial data consistency and reporting.
- Implemented authentication, role-based access control, and secure API practices aligned with compliance-ready systems.
- Automated CI/CD pipelines with Docker and GitHub Actions, improving deployment reliability and release cadence.

**Notify System** — Event-Driven Backend Platform

Nov 2025 – Dec 2025

- **Tech Stack:** Node.js, Express.js, Redis Streams, PostgreSQL, WebSockets
- Built scalable backend services and data pipelines using Redis Streams to process real-time, scheduled, and bulk notifications.
- Implemented retry strategies, exponential backoff, and Dead Letter Queues (DLQ) to improve system reliability.
- Developed real-time dashboards using WebSockets to monitor message flow and worker health.

**AI Restaurant Assistant** — AI-Powered Web Application

Jan 2026

- **Tech Stack:** React.js, Python, FastAPI, OpenAI API, AWS S3, Pytest
- Designed and built a production-grade AI restaurant assistant using React and FastAPI with session-based conversational memory.
- Implemented a decision-tree + AI hybrid architecture to ensure deterministic responses and prevent hallucinations.
- Integrated AWS S3 for menu uploads, added automated backend tests using Pytest, and deployed the system on cloud infrastructure.

## Experience

**Uptricks Services Private Limited (WorkNest)**

July 2025 – Sept 2025

*Full Stack Developer Intern*

- Designed, developed, and maintained full stack application components including backend services, APIs, and frontend interfaces.
- Built secure authentication workflows and optimized database queries, improving system performance.
- Collaborated within an Agile team, contributing to CI/CD pipelines and feature delivery.

## Achievements & Highlights

Solved 600+ Data Structures and Algorithms problems across LeetCode and GeeksforGeeks.

Strong foundation in full stack development, backend systems, and cloud-deployed applications.

## Education

**Bundelkhand Institute of Engineering and Technology (BIET), Jhansi**

2022 – 2026

*B.Tech in Computer Science and Engineering (CGPA: 7.0 / 10)*