

AYUSH BANSAL

Cloud-Native Backend Engineer

+91 8527510817 | its2003ayush@gmail.com | github.com/ayush03b

PROFILE

Recent Computer Science graduate and backend-leaning Full-Stack Developer passionate about building scalable systems, clean APIs, and developer tools. I have hands-on experience with FastAPI, Flask, React, PostgreSQL, and AWS, along with multiple AWS certifications that validate my cloud expertise. I enjoy crafting solutions that boost developer productivity and hold up under real-world pressure. I'm now looking to kickstart my career in IT, where I can contribute to high-impact engineering teams and grow as a developer.

WORK EXPERIENCE

REACT INTERN

Budgetree - NOIDA

Nov 2024 - Jan 2025

Built the landing page for the company's payment app using React, and developed UI components for an integrations platform using TypeScript and Tailwind.

Also deployed a WordPress-based marketing site, handling plugin setups and ensuring smooth production rollout.

PROJECTS

STREAMFORGE

REACT · FASTAPI · AWS (S3, ECS, SQS, CLOUDFRONT) · POSTGRESQL · REDIS · DOCKER

- Built a full-stack, microservice-based video platform using React (frontend) and FastAPI (backend) with Dockerized services for upload, processing, and playback.
- Designed an event-driven architecture using SQS to trigger ECS tasks for video transcoding (HLS) and segmentation, storing processed videos in S3 and delivering via CloudFront.
- Implemented secure, scalable uploads via pre-signed S3 URLs, managed video metadata in PostgreSQL, and optimized retrieval through Redis caching and signed CloudFront URLs.

STACKHATCH

FASTAPI · DOCKER · POSTGRESQL · REDIS · CELERY · SQLMODEL · JWT

- Built a secure, scalable backend service with full CRUD, user auth, and role-based access control using FastAPI, SQLAlchemy, and PostgreSQL.
- Integrated JWT authentication, middleware, background tasks with Celery, and async email verification with Redis as the broker.
- Packaged as a modular, containerized system using Docker, with clean routing, schema relationships, and auto-generated API docs for dev onboarding.

EDUCATION

Noida Institute of Engineering & Technology

2021-2025

Computer Science Engineering(AI)

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect

SKILLS

- Python, JavaScript
- FastAPI, Flask, React, Tailwind
- PostgreSQL, MySQL, SQLite
- REST, GRPC, Async Programming
- AWS, Microservices, Linux
- JWT, Cookies, Logging
- CI/CD, Docker, Redis, Postman