AMIT PAUL

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</> LeetCode   ○ GitHub   in LinkedIn   📈 Kaggle   ▣ Bitbucket   ⚡ Codeforces

Know more about me → https://amitpaul-portfolio.netlify.app/

👤 PROFILE

Software Engineer with 2+ years of experience designing, scaling, and shipping high-impact backend systems. Proven expertise in system architecture (Django REST Framework), database optimization (PostgreSQL), API design (RAG), and full-stack development (Vue.js).

💼 EXPERIENCE

Idlewild Digital | Backend Developer (Remote)   Jan 2024 – Present

- Architected and implemented a robust export/import solution ("Crabarian") from scratch, cutting 35+ hours of manual reporting and data entry per week.

- Designed a modular LMS backend, architecting a scalable permissions system for 3 user types, designed to support 5,000+ users and automating certificate generation.

- Optimized database performance by resolving N+1 query issues using `select_related` and `prefetch_related`, and applied `annotate` and `aggregate` for efficient data retrieval.

- Developed a full-stack community platform ("American Provost Connect") by implementing event management, forums, and resource-sharing features.

Idlewild Digital | Python Intern   Aug 2023 – Dec 2023

- Owned the development of the "Daily Updates" internal reporting system from concept to deployment.

- Proactively learned and applied modular coding practices and Git workflows, earning a promotion to Backend Developer based on performance.

⭐ INTERNSHIPS AND ATACHMENTS

Grameenphone | Data Science & Engineering Trainee(Industrial Attachment)   Jan 2025 – Feb 2025

- Architected a prototype chatbot REST API, designing and implementing a RAG-based application to query telecom FAQs and serve real-time customer data.

💻 PROJECTS / OPEN-SOURCE

University Certificate Automation System

- Designed, built, and pitched a full-stack certificate platform (designed to scale to 10,000+ students) to the Khulna University ICT Cell, outlining its architecture, security, and deployment plan.

- **Links:** Backend | Frontend | Demo | Presentation

🛠 SKILLS

Languages: Python, JavaScript, Java, C++, C
Frameworks: Django REST Framework, Django, Vue.js
Databases: PostgreSQL, SQLite, MySQL
Tools & DevOps: Git, Bitbucket, Docker, CI/CD, Linux

🎓 EDUCATION

Khulna University   Jan 2021 – Present
B.Sc. Engg. in Electronics and Communication Engineering

- **B.Sc. Thesis (Ongoing):** Comparing Vision Transformers (ViT) and Time Series Transformers (TST) for bearing fault diagnosis, analyzing accuracy, noise robustness, and cross-dataset performance.

🏅 CERTIFICATIONS

- Industrial Attachment (Data Science & Engineering) – Grameenphone
- Intro to Machine Learning – Kaggle
- Django Web Framework – Meta
- ICPC Asia Dhaka 2021 – ICPC Global