

# MD. ABIR HASAN PIASH

Dhaka, Bangladesh | +880 1765 600305 | abirhasanpiash@gmail.com

LinkedIn | GitHub | Portfolio | LeetCode | Codeforces

## Career Objective

Motivated Full-stack Engineer with experience building scalable web applications using **Django**, **FastAPI** and **React.js**. Skilled in Python and TypeScript, with a strong background in developing secure APIs, managing cloud-based integrations (GCP/AWS), and contributing to **AI-driven features**. Committed to engineering excellence, writing clean documentation, and thriving in remote, collaborative team environments.

## Education

### BRAC University

*Bachelor of Science in Computer Science and Engineering*

Sep 2022 - Present

Dhaka, Bangladesh

- **CGPA:** 3.87/4.00
- **Expected Graduation:** Aug 2026
- **Relevant Coursework:** OOPs, Data Structures, Algorithms, Database Systems, Software Engineering, System Analysis and Design, Computer Networks, Artificial Intelligence, Machine Learning

## Experience

### BRAC University

*Undergraduate Teaching Assistant (CSE Department)*

Feb 2026 - Present

Dhaka, Bangladesh

- Selected through a **competitive written exam** covering **programming, data structures and algorithms, object-oriented programming, and discrete mathematics**.
- Provide **one-on-one and group tutoring**, helping students debug code and strengthen algorithmic problem-solving.
- Facilitate **review sessions** and assist faculty with **formative grading** and student feedback.

### StackScholar - EdTech Startup

*Lead Software Engineer*

Mar 2025 - Dec 2025

Dhaka, Bangladesh

- Architected a secure, SEO-focused cloud platform, designing scalable infrastructure and maintaining clear **documentation** and reproducible workflows for the engineering team.
- Optimized **FastAPI** backend pipelines and **Next.js** frontend rendering strategies, reducing API latency by **45%** to ensure high availability for concurrent users.
- Engineered an **AI-powered chatbot** using LLMs to provide real-time candidate feedback, directly contributing to product innovation and user engagement.

### Freelancing

*Full-Stack Engineer (Backend and AI Focus)*

Jul 2024 - Present

Remote

- Designed and deployed scalable **RESTful APIs** and microservices, effectively collaborating with clients to translate requirements into technical solutions.
- Delivered **4+ production-ready applications**, integrating **AI-concepts** (RAG pipelines), and managing cloud deployments on **AWS** using **Docker** and **CI/CD**.

## Projects

**MultiAIModel - Multi-Modal AI Platform** | *FastAPI, React, PostgreSQL, Redis, Celery*

Dec 2025 - Jan 2026

- Engineered a scalable backend integrating multiple AI providers (**OpenAI, Gemini, Claude**) with automatic **LLM routing** and real-time streaming chat via **WebSockets**.
- Implemented **wallet-based billing** and secure payments using **Stripe** and **Razorpay**, supporting atomic credit transactions and detailed usage tracking.
- Built asynchronous pipelines for **image generation, text-to-speech, and AI avatar video creation** using **Celery, Redis, and Cloudflare R2** for scalable media processing.

**Links:** [Live Platform](#) | **GitHub:** [Backend](#) | [Frontend](#) | **API Docs:** [Openapi](#)

**Pzafira - E-commerce Platform for Clothing** | *Django, React, PostgreSQL*

Feb 2025 - May 2025

- Architected **20+ REST API endpoints** and applied PostgreSQL indexing, focusing on backend performance and reliability.
- Engineered a secure checkout pipeline integrating **JWT auth** and **RBAC**, ensuring 100% automated payments and data protection.
- Maintained comprehensive API documentation (Swagger) to ensure smooth frontend-backend integration.

**Links:** [Live Demo](#) | **GitHub:** [Backend](#) | [Frontend](#) | **Documentation:** [Swagger](#)

## Technical Skills

**Languages:** Python, TypeScript, JavaScript, C, C++, HTML, CSS

**Frameworks/Libraries:** FastAPI, Django, Node.js, Next.js, React, TailwindCSS, NumPy, Scikit-Learn, TensorFlow

**Databases:** PostgreSQL, MySQL, MongoDB, SQLite

**DevOps & Tools:** Git, Docker, CI/CD (GitHub Actions), AWS, GCP, PyTest, Vercel, Supabase

## Achievements & Awards

- Solved **300+** algorithm and data structure problems across LeetCode, Codeforces, and CodeChef.
- **SAAF Scholarship** at BRAC University: 100% tuition fee waiver awarded for academic merit.
- **Duke of Edinburgh's Award** - Bronze Level: completed a structured program in service, skills, fitness, and expedition.