

A.K.M Hasnine Mamud

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PROFILE

Results-driven Backend Developer passionate about DevOps, skilled in building scalable RESTful APIs with Django REST Framework and PostgreSQL. Improved system performance by 25% during a 3-month internship through query optimization. Strong focus on backend architecture, API design, and CI/CD practices.

EDUCATION

Green University of Bangladesh

2020 – 2024 | Dhaka, Bangladesh

BSc in Computer Science & Engineering

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Software Engineering, Web Application Development, Operating Systems

PROFESSIONAL EXPERIENCE

RobotTechValley

04/2024 – 07/2024 | Dhaka, Bangladesh

Software Engineer Intern

Tools & Technologies:

PostgreSQL, Django REST Framework, Python, JWT Authentication, Git, GitHub, RESTful APIs, Swagger UI

- Designed and implemented efficient PostgreSQL database schemas with optimized queries, **reducing API response times by 25%**.
- Developed and documented **20+ RESTful API endpoints** using **DRF** and **Swagger UI** for clear, testable interface specifications.
- Utilized **JWT authentication** to secure API access and manage user sessions.

PROJECTS EXPERIENCE

AuctionCraft 🔗

2023

Technologies: Django, JavaScript, Tailwind CSS, SQLite

- Implemented secure user **authentication** and **authorization** using Django's built-in authentication system.
- Built robust **real-time bidding** functionality to reflect the latest bids using JavaScript and Django views.
- Personally listed **50+ products** and successfully completed **10+ live auctions**, demonstrating strong engagement and platform functionality.

Payment & File Upload System 🔗

2025

Technologies: Django, REST API, Celery, Redis, PostgreSQL, Bootstrap,

Payment Gateway Integration, API Security

- Developed a **payment-gated file upload system** where users can upload files only after successful **aamarPay payment**.
- Designed and deployed RESTful APIs with token authentication for secure client-server communication.
- Implemented background **task processing** with **Celery + Redis**, improving file analysis efficiency by **70%**.
- Integrated **activity logging & admin dashboard** for monitoring payments, file uploads, and user actions.
- Resolved technical challenges including **payment webhook handling** and file permission issues.

RAG-Powered Financial Research Assistant

02/2025

Technologies: Python, FastAPI, FAISS, Streamlit

- Developed an intelligent **document analysis system** using Retrieval-Augmented Generation (RAG) to process financial policy documents and enable natural language Q&A
- Implemented end-to-end pipeline for **PDF ingestion, text chunking, vector embedding, and semantic search** using FAISS vector database
- Created interactive web UI with **Streamlit for document upload** and **real-time question-answering** capabilities
- Integrated **Hyperbolic LLM API** to generate contextual summaries alongside extractive answers with source citations

SKILLS

Languages/Frameworks — Python, JavaScript (ES6+), React.js, Django REST Framework (DRF), Flask

Backend Development & APIs: — RESTful API Design, Async (FastAPI, Celery), API Docs (Swagger/Postman)

Database Management — PostgreSQL, MySQL, MongoDB, SQL, Database Design, Query Optimization

Version Control & Collaboration — Git, GitHub, GitHub Actions, Branching Strategies, Agile/Scrum Methodologies

Operating Systems — Linux (Ubuntu, CentOS), Shell Scripting,

Concepts — RESTful API Testing, Agile Methodologies, SDLC, OOP

CI/CD Pipelines: — Jenkins, GitHub Actions, Automated Build & Deployment