

A.K.M Hasnine Mamud

✉ hasninemamud20@gmail.com ☎ +8801636441892

📍 470/2-a, West Shewrapara, Shamim shoroni, Mirpur, Dhaka-1216 💬 hasninemamud 🌐 hasninemamud.vercel.app
🌐 github.com/hasninemamud

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 **amarPay 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