

Fardows Alam Kayes

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Narayanganj, Bangladesh

EDUCATION

Green University of Bangladesh

B.Sc. in Computer Science and Engineering (CGPA: 3.29/4.00)

Narayanganj, Bangladesh

Oct. 2022 – Expected Sep. 2026

- **Relevant Coursework:** Data Structures & Algorithms, Database Systems, Operating Systems, Object-Oriented Programming, Software Engineering

TECHNICAL SKILLS

Languages: Python, TypeScript, C++

Backend: FastAPI, SQLAlchemy, REST APIs, LangChain, LangGraph, SSE

AI / ML: OpenAI API, Gemini API, RAG pipelines, TensorFlow, scikit-learn

Databases: PostgreSQL, SQLite, Redis, Qdrant, Pinecone, Cloudflare R2

DevOps / Cloud: Docker, GitHub Actions (CI/CD), DigitalOcean, Microsoft Azure, Linux

Tools: Git, Playwright, Jinja2, Alembic, Postman, Textual

EXPERIENCE

Green University of Bangladesh

Undergraduate Researcher

Narayanganj, Bangladesh

2025 – Present

- Researching NLP and graph-based methods for academic publication analysis and researcher profiling under the supervision of the Dean.

PROJECTS

LearnSync | *FastAPI, Next.js, PostgreSQL, Qdrant, LangGraph, Cloudflare R2*

GitHub

- Built an AI learning platform with document chat, quizzes, scheduling, and collaborative study features.
- Implemented hybrid dense-sparse vector search in Qdrant with query rewriting for contextual retrieval.
- Added JWT authentication, asynchronous document processing, Cloudflare R2, and SSE streaming.

CVAlchemix | *Python, Playwright, Jinja2, LaTeX, Gemini API*

GitHub

- Built a CLI tool that scrapes LinkedIn job postings and generates tailored CV PDFs using AI.
- Used Playwright and Gemini to rewrite CV content based on job requirements and keywords.
- Created an automated Jinja2 and LaTeX pipeline for generating customized PDF resumes.

Agens | *FastAPI, SQLAlchemy, OpenAI API, Textual, Telegram Bot API*

GitHub

- Built a multi-interface AI assistant for CLI, terminal, web, and Telegram, published on PyPI.
- Implemented memory-aware conversations with user-controlled preferences and automatic API fallback handling.
- Added safety checks to block destructive shell commands using regex matching.

ACHIEVEMENTS

HackTheAI Hackathon

Team Leader

Bangladesh

Sep. 2025

- Ranked 1st among Green University teams and 13th overall in the preliminary round.
- Built the FastAPI backend for an AI-powered developer learning platform using SQLAlchemy and LangChain, placing Top 50 among 250 teams in the finals.