Kahirul Islam

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SUMMARY

I'm a passionate AI developer who loves building real-world intelligent systems. I work on chatbots, AI agents, and LLM-powered applications using tools like RAG, LangChain, and LangGraph to solve practical problems. With strong backend skills in Python and FastAPI, I build and deploy complete end-to-end AI solutions — from idea to production. I enjoy turning complex concepts into working products and continuously learning new technologies to improve my craft.

SKILLS

Programming Languages	**TypeScript | C | Python**
Frameworks & Libraries	**Express | NextJS | Tailwind**
Software Development	**GIT | GitHub | Postman**
Database	**MongoDB | MySQL**
AI Development	**TensorFlow | Keras | crewAI | LangChain | Langgraph**

EXPERIENCE

AI Developer

Mar. 2025 -Now/Dhaka

Sparketech Agency | Bangladesh

- Leading the development and deployment of **Pluto E-commerce Agent**, an AI-powered virtual shopkeeper that understands natural language queries, recommends products, manages carts, and supports checkout workflows.
- Designing and building AI agents using **LangChain** and **LangGraph**, integrating tool-calling, memory, and database operations (MongoDB, Prisma).
- Developing **Retrieval-Augmented Generation (RAG)** systems using vector databases (FAISS, Pinecone, ChromaDB) and multilingual embeddings for domain-specific knowledge applications.
- Building backend systems with **Python (FastAPI)** to support real-time chat, file processing, image analysis, and LLM-based features.
- Integrating machine learning components such as **deep learning models (YOLO)** and OCR into scalable APIs and web platforms

PROJECTS

MeterSnap

🔗 GitHub

MeterSnap is an AI-powered mobile app that can read meter screens from meter images. It's an easy, user-friendly mobile app that can read electricity meters. Here the yolov8 model and PaddleOCR are used for digit reading.

Tech Stack: Python, OCR, flask, TensorFlow

Pomegranate-Growth-Analysis-with-Yolo

🔗 Github

Trained YOLOv8 and YOLOv5 models to detect pomegranate growth stages: bud, flower, early-fruit, mid-growth, and ripe. Developed a dataset and optimized model performance for accurate classification.

Tech Stack: Python, TensorFlow

EDUCATION

East West University (2020–2024) | B.Sc. in Computer Science & Engineering | CGPA: 3.48/4.00
Dr. Mahbubur Rahman Mollah College (2019) | Higher Secondary Certificate | GPA: 5.00/5.00

CERTIFICATIONS

Multi AI Agent Systems with crewAI – DeepLearning.ai | May 2025

API Design in Node.js (v4) – Frontend Masters | Oct 2024