Md. Ahnaf Akib

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EDUCATION

ISLAMIC UNIVERSITY OF TECHNOLOGY
Bsc in Software Engineering
2019 - 2024 | Boardbazar , Gazipur
CGPA: 3.71 / 4.00

ADAMJEE CANTONMENT COLLEGE
Higher Secondary Certificate
2017-2019 | Cantonment, Dhaka
GPA: 5.00 / 5.00

ADAMJEE CANTONMENT PUBLIC SCHOOL
Secondary School Certificate
2016-2017 | Cantonment, Dhaka
GPA: 5.00 / 5.00

SKILLS

PROGRAMMING
Languages:
Python • Javascript • Java • C++
Frameworks:
Pytorch • React • Next.js • NodeJS • Express • Bootstrap • Unqork • Tailwind CSS
Tools:
LangChain • LangSmith • LangGraph • GenAI • Prometheus • Grafana • Git • Docker
Databases:
MySQL • MongoDB • PostgresSQL

PROJECTS

Omniscient –
Developed an intelligent research assistant using LangChain, LangGraph, and Hugging Face APIs to retrieve, summarize, and analyze academic content. Integrated reasoning graphs for multi-step question answering and used FastAPI for backend orchestration.

EchoMind –
Built a real-time AI meeting companion capable of live transcription, summarization, and voice feedback using LiveKit, Cartesia TTS, and LangChain. Integrated Grafana telemetry and LangSmith for observability and performance monitoring.

EXPERIENCE

ALL GENERATION TECH | Softawre Engineer II
September 2024 - Present | Gulshan-1, Dhaka- 1212

Annuity New Business Platform (Unqork) – US Life & Annuity Insurer

- Built **integrations**: DTCC ingestion via **Workato**, **ACORD TX103** XML, document webhooks, carrier lookup APIs, and **PandaDoc**.
- Implemented **accounting GL and control file** generation for premium and subsequent payments.
- Built **Agent Can Sell** eligibility, reminders, authorized signers, **Source of Funds** carrier search, and dashboards.
- Added field-level **audit logs**, **RBAC**, MSS file parsing, XML-to-webhook pipelines, and PDF generation.

Ink'd – AI Voice Agent for Real Estate Contract Intake

- Architected and built a production **real-time voice AI agent** that lets real estate brokers create legally compliant purchase contracts end-to-end by speaking, using **Python, LangGraph, and the LiveKit Agents SDK**.
- Designed a **14-node LangGraph state machine** covering address capture, property enrichment, contract selection, dynamic Q&A, addenda evaluation, PDF generation, and backend upload, with a strongly typed conversation state and custom reducers.
- Built a **low-latency voice pipeline** with **Deepgram STT**, **Cartesia TTS**, and semantic turn detection, streaming LangGraph output through a custom LiveKit LLM adapter.
- Created a **declarative, data-driven contract engine** supporting **Virginia and Maryland** residential sales contracts and **30+ required, conditional, and optional addenda**, with rule-based conditional fields and template prefills.
- Implemented **LLM-based answer extraction** (OpenRouter) with type-aware normalization for dates, numbers, booleans, and select fields, plus validation and retry handling for reliable data capture.
- Generated and merged filled **PDF contracts** from **AWS S3** templates and uploaded them to the **Django REST** backend for e-signing, following a **clean architecture** design.
- Added **LangSmith** tracing and **OpenTelemetry** observability, containerized with **Docker**, and resolved date-parsing, field-mapping, and prefill issues to make the workflow production-ready.

KERNEL INTERNATIONAL LTD | FullStack Developer
May 2023 - September 2023 | Gulshan-1, Dhaka- 1212

Horticulture Wing BD | horticulturewingbd.com

- Contributed to the Center Management Software for the Ministry of Agriculture, Bangladesh, using **Node.js**, **EJS**, and **MySQL**.
- Redesigned the UI and built multi-filter plant search and employee records with PDF export.

MediBee | medibee.com.bd

- Built a mobile-friendly medical course portal with **Next.js** and **Tailwind CSS**.

CERTIFICATIONS

CLAUDE CERTIFIED ARCHITECT – PROFESSIONAL | Anthropic