

Ehsanul Haque Siam

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EXPERIENCE

AI & Data Engineer

Aug 2025 – Present

BDTracks

Dhaka, Bangladesh

- Developed 15+ web scrapers powering Bangladesh's commodity and accident tracking platform
- Fine-tuned Gemini 2.5 Flash/Pro via Vertex AI for automated data classification across daily national feeds

Solo Developer

Jan 2026 – Present

BetaScript LLC (US-based)

Remote

- Shipped 4 production React websites driving 1.5x revenue growth, serving 50,000+ users across 3 industries
- Owned full lifecycle with React 19, TanStack Start, and TailwindCSS from design to Netlify deployment

AI Engineering Intern

Feb 2026 – May 2026

Unies

Remote

- Developed RAG pipelines with Pinecone, ChromaDB, LangChain, and LlamaIndex for academic retrieval
- Implemented LLM evaluation pipelines and FastAPI backends for curriculum-aligned tutoring systems

Team Lead – Game Development

Oct 2024 – Dec 2024

AIUB Computer Graphics Course

Dhaka, Bangladesh

- Led 5-developer team shipping a 2D platformer with 3 levels and 4 GitHub forks in 3 months
- Built custom OpenGL rendering engine with SFML audio and SQLite persistence in C++

PROJECTS

TTT Autos | *React, TypeScript, TanStack Start, Drizzle ORM, SQLite, Spline 3D*

- Shipped dealership platform with 3D Spline showcases, admin CRUD dashboard, and 7 indexed database tables
- Designed polymorphic inventory supporting 3 vehicle types with multi-filter search across 12+ facets

KaajKormo | *React, TypeScript, Rust/Axum, PostgreSQL, Clerk Auth*

- Created job portal with swipe-to-apply UX and AI-powered CV parsing with skill-match scoring
- Architected full-stack with React 19 frontend and Rust Axum backend serving PostgreSQL 17

Student Management System | *Java, MySQL, JDBC, Design Patterns*

17 GitHub Stars

- Reduced query time from 50ms to 7ms (7x faster) via 3NF normalization and connection pooling
- Served 45+ active university users with centralized admin and student dashboards

BD News Scraper & Analytics | *Python, Scrapy, FastAPI, Docker, GitHub Actions*

- Automated daily scraping of 74+ news sources with 82 spiders and live Kaggle dataset
- Built ML sentiment analysis with TF-IDF clustering and GitHub Actions CI/CD pipeline

EDUCATION

American International University-Bangladesh (AIUB)

Dhaka, Bangladesh

Bachelor of Science in Computer Science and Engineering

2022 – 2026

- 3x Dean's List Award for academic excellence (CGPA 3.95, 3.89, 3.75+)
- 1st Runner-Up at AIUB CS Fest 2024 App Showcase competing against 20+ teams

PUBLICATIONS

“Decoding Research Trends: A Clustering Based Topic Modeling Framework” – IEEE QPAIN 2026

(Accepted, IEEE Xplore/Scopus)

“Beyond NER: Medical BERTs for Multi-Label ADR Classification” – Taylor & Francis, IDAA 2025

“Unfolding Emerging Issues in Changing Climatic Scenario” – 2nd South Asian Climate Conference, 2024

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, TypeScript, Kotlin, C#, SQL

AI/ML: scikit-learn, TensorFlow, PyTorch, LLMs, BERT, NLP, RAG, LangChain, LlamaIndex, Computer Vision

Web & Mobile: React, TailwindCSS, FastAPI, TanStack Start/Router, REST APIs, Android SDK, Firebase

Databases: MySQL, PostgreSQL, SQLite, SQL Server, Drizzle ORM, Room Database

DevOps & Tools: Git, Docker, Linux, Vertex AI, GitHub Actions, Scrapy, Jupyter