

EDUCATION

B.Sc. in Computer Science & Engineering

Khulna University of Engineering & Technology (KUET)

2023 – Present

ACHIEVEMENTS

Champion

KUET First Byte Datathon, 2025

2nd Runner-Up

BUET CSE Fest Hackathon, 2026

Hackathons competed in

Techathon Nationals 2026 (IUT), SciBlitz AI Challenge 2026 (IEEE SB CUET), Build with Gemma, PSTU IT Carnival 2026

SKILLS

Languages

TypeScript, JavaScript (ES6+), Go, Rust, Python, C#, Java, C/C++, PHP, SQL

Frontend

React, Next.js (App Router, SSR/SSG), Vue, SvelteKit, Angular, Three.js / React Three Fiber, WebAssembly, Tailwind CSS

Mobile

React Native, Expo, React Native Skia, Reanimated

Backend & APIs

Node.js, Express, FastAPI, ASP.NET Core, SignalR, axum, Spring Boot, Laravel, REST, WebSockets, Auth (JWT, NextAuth, Firebase)

Data

PostgreSQL, MySQL, MongoDB, Redis, SQLite, Firebase / Firestore, Prisma

DevOps & Cloud

Docker, GitHub Actions, Nginx, Caddy, Kubernetes, Prometheus, Grafana, Oracle Cloud, Azure, Vercel

AI & LLMs

Prompt engineering, LangGraph, OpenAI API, Whisper, Gemma

Tools

Git, GitHub, Postman, Vite, Vitest, Jest

LANGUAGES

Bangla – Native

English – Professional working

PROFILE

Full-stack engineer and CSE undergraduate at KUET who ships end to end: React, Next.js, Vue and Svelte front ends; Go, Rust, .NET, Node and FastAPI services; PostgreSQL and Redis; containerised on Oracle Cloud, Azure and Vercel. Now a full-stack developer at UK-based EngineFinders.

EXPERIENCE

Full-Stack Developer

EngineFinders | UK, remote

Present

- Build and maintain the garage, engine, car and number plate maker sites, front end to back end.

Prompt Engineer

fionetix solutions | Remote

2026

- Designed and deployed structured prompts and pipelines to raise LLM accuracy and consistency.

Full-Stack Developer Intern

IniAstra Tech | Remote

Jan 2026 – Jun 2026

- Built features for scalable web apps in fast sprints, across front-end UI and back-end integration.

QnA Teacher

Udvash Academic & Admission Care

2 years

- Resolved students' admission-preparation questions, sharpening clear technical communication.

SELECTED PROJECTS

Vernissage – Multiplayer 3D Art Exhibitions

Go, PostgreSQL 18, Next.js 16, React Three Fiber, WebSockets, Docker, Caddy, Oracle Cloud

Live | Code

- Curate an exhibition from 8,263 public-domain works (The Met, Cleveland) and walk it in 3D with whoever opens the link; one Go binary (API, WebSocket hub, Deep Zoom tiles) runs on Oracle Cloud.

Vantage – 6-DOF Robot Arm Control Suite

Techathon Nationals 2026 | React, Vite, Three.js / R3F, OpenAI Whisper, LLM agent

Live | Code

- One safety-gated motion pipeline driven six ways, from joystick and Whisper voice to an LLM agent.

Logarithm Warehouse – Resilient Microservices Platform

BUET CSE Fest 2026, 2nd Runner-Up | Node.js, PostgreSQL, Redis, Nginx, Docker, Prometheus, Grafana

Live | Code

- Fixed chaos tests that drifted out of sync across 3 inventory replicas, each keeping its own counter, with a shared Redis counter, so “every 5th request is slow” holds globally. Split the monolith into services behind Nginx, with Prometheus and Grafana.

CoDoctor – Ambient Bangla Clinical Co-pilot

SciBlitz AI Challenge 2026 | Next.js, FastAPI, LangGraph, Azure App Service

Code

- Fuses two phones' Bangla transcripts of a consultation; a LangGraph agent team cites clinical guidelines while deterministic rule engines, never the LLM, flag danger signs and drug interactions.

TakaFlow – Money Movement Platform

PSTU IT Carnival 2026 Hackathon | TypeScript, React, PostgreSQL 18, PgBouncer, Redis, Nginx, Docker

Code

- Send, request, split and schedule money on a double-entry ledger with idempotency keys.

kori & quill – A Ledger and a Database from Scratch

TypeScript, PostgreSQL, Redis | Go, B+tree, write-ahead log, PostgreSQL wire protocol

kori | quill

- kori: a double-entry payments API with idempotent retries and balances re-derived from the journal.
- quill: a SQL database with crash recovery that the real psql connects to.

ebru, kirie & noctiluca – Real-time Shared Worlds

Rust, WebAssembly, Vue | ASP.NET Core, SignalR, SvelteKit | Django, Channels, Next.js, WebGL

ebru | kirie | noctiluca

- ebru: shared paper marbling; identical Rust maths on the server and in WebAssembly, bit for bit.
- kirie: a pop-up book of the sky over 36 places, lit by live weather and the real sun and moon.
- noctiluca: a deep-sea dive lit by strangers' messages, with other divers live over WebSockets.

Asterism – AR Stargazing App

React Native, Expo, React Native Skia, Reanimated, Jest

Web | Code

- Point the phone at the sky to name stars, planets and the ISS, drawn on the UI thread with Skia.

lumen & gedis – Systems from Scratch in Go

Go standard library, BM25, RESP, replication, AOF

lumen | gedis

- lumen: a BM25 search engine with its own crawler; gedis: a Redis-compatible store with replication.