

EKRAMUL ALAM

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SUMMARY

CSE graduate with competitive programming experience (Max Codeforces Rating: 1257) and strong foundations in Data Structures & Algorithms, Computer Networks, and Operating Systems. Proficient in Java, C++, Python, JavaScript, TypeScript, and PHP, with hands-on full-stack development across Spring Boot, MERN, and Laravel ecosystems. Skilled in RESTful API design, relational databases (MySQL, PostgreSQL), MongoDB, and modern React/Next.js frontends. Familiar with AI-integrated development using LangChain, vector search (pgvector, ChromaDB), and FastAPI. Known for clean coding practices, quick adaptability, and strong problem-solving ability.

EDUCATION

Khulna University of Engineering & Technology
Bachelor of Science in Computer Science and Engineering

Khulna, Bangladesh
Mar 2022 – Jul 2026

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, TypeScript, PHP, C

Web & Frameworks: Spring Boot, React.js, Next.js, Node.js, Express.js, FastAPI, Laravel 11, Vue.js

Core CS: Data Structures & Algorithms, Operating Systems, Computer Networks, OOP, DBMS

AI/ML: LangChain, Vector Embeddings (pgvector, ChromaDB), RAG, Prompt Engineering

Databases & ORM: MySQL, PostgreSQL (Supabase, pgvector), MongoDB, Eloquent ORM, JPA/Hibernate, Mongoose

Tools & DevOps: Git, Linux/Bash, Docker, Cloudinary, JWT, OAuth2, REST APIs

Communication Skills: English (Full professional and Academic proficiency), Bengali (Native proficiency)

EXPERIENCE

Full-Stack Web Developer (Part-time)

Aug 2025 – Aug 2026

TechnoPLUS IT – Remote (Aus)

- Built and maintained a Laravel 9 + Vue.js LMS using Porto/Apiato modular architecture, applying OOP and design patterns (Repository, Service, Observer) across 15+ domain containers
- Independently researched and implemented a custom H5P interactive content integration from scratch, and designed RESTful APIs with role-based access control
- Implemented relational database tables with ordered pivot tables, SoftDeletes, and JSON metadata columns to support a flexible multi-content-type lesson structure

PROJECT EXPERIENCE

Moviecrates – AI Movie Recommender (*Java, Spring Boot, PostgreSQL*)

Jul 2026

- Built a multi-user movie recommendation platform with Next.js/React frontend and Spring Boot REST API backed by PostgreSQL + pgvector; containerized with Docker and deployed to Azure Container Apps
- Engineered stateless Google OAuth2 auth issuing httpOnly JWT cookies, strict per-user repository boundaries to structurally eliminate IDOR risks, prompt-injection defenses, and per-user sliding-window rate limiting

Automated Healthcare System (*MERN Stack, Gemini, ChromaDB*)

Nov 2024

- Built a full-stack healthcare platform with React.js, Node.js, Express, and MongoDB featuring doctor appointment booking, pharmacy cart, blood donor search, and emergency ambulance services
- Implemented JWT-based authentication with bcrypt password hashing, role-based access control (Admin, Moderator, User), Cloudinary image uploads, and modular MVC RESTful API backend
- Integrated Google Gemini, ChromaDB vector store, Tesseract OCR, and a multi-format document parser (PDF/DOCX) for intelligent medical search and retrieval

AI-Powered Learning Platform (*Next.js, FastAPI, LangChain*)

Jan 2026

- Developed a university course assistant with AI-powered tutoring and intelligent content search using LangChain and vector embeddings
- Engineered a FastAPI backend with Supabase (PostgreSQL) and row-level security, supporting real-time updates and separate role-based portals for students and instructors

MemeGrove – Social Media Platform (*Laravel 11, MySQL*)

May 2024

- Designed and built a full-featured social platform from scratch with user authentication, image upload pipeline using Intervention Image, likes, comments, following system, and real-time event-driven notifications
- Implemented a custom trending algorithm combining engagement metrics with time decay, alongside tag analytics, infinite scroll pagination, and an admin moderation dashboard

ACTIVITIES

BUET CSE Fest 2026 Hackathon – Finalist | Dhaka, Bangladesh | Jan 2026

BITFEST 2025 – Executive Member | Khulna, Bangladesh | Dec 2024 – Jan 2025

SGIPC (Special Group of Interest in Programming Contest) – Campaign Editor | Khulna, Bangladesh | Aug 2023 – Present

Intra KUET Programming Contest 2023 – Best Team 2k20 Award Winner | Khulna, Bangladesh | 2024

Inter-University Programming Contests (IUPC) – Participant | KUET | 2025