

MD AKRAM

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EDUCATION

- **KPR Institute of Engineering and Technology** Jul 2022 – Present
B.E. in Civil Engineering (CGPA: 8.7/10.0)
Coimbatore, Tamil Nadu
 - **Relevant CS Coursework:** Data Structures & Algorithms, OOP, DBMS, Computer Networks, OS
 - Completed **Responsive Web Design Certification** (freeCodeCamp, 300+ hours) [\[LINK\]](#).

TECHNICAL SKILLS

- **Frontend:** ReactJS, Next.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, MUI
- **Backend:** Node.js, Express.js, REST APIs
- **Databases:** MongoDB, Redis, SQL
- **Languages:** JavaScript, C++, Java, Python
- **Tools & Platforms:** Git, GitHub, Visual Studio Code, Postman

EXPERIENCE

- **Innomatics Research Labs** Jan 2025 – Mar 2025
Full Stack Developer Intern
Hyderabad, Telangana
 - Developed **SwasthScript**, a MERN-stack healthcare platform with JWT auth, role-based access, and a responsive React dashboard for **10,000+ users**.
 - Boosted API performance by **60%** using Redis caching and optimized queries (210ms → 80ms).
 - Integrated **Stripe & Razorpay** with secure webhook handling for fraud-free payments.
- **Kathmandu Metropolitan City Office** Jan 2024 – Feb 2024
e-Governance Tech Intern
Kathmandu, Nepal
 - Implemented **AES-256 encryption** and input sanitization to secure **50,000+ citizen records**.
 - Built REST APIs integrated with AutoCAD, reducing building permit approval time by **50%**.
 - Designed a simple **staff-facing portal**, improving accessibility and reducing training needs.

PROJECTS

- **Collaborative Real-Time Code Editor** | *React, Node.js, Express.js, Socket.io, MongoDB* | [LINK](#)
 - Built a low-latency real-time code editor with a **React-based UI**, including syntax highlighting, live cursors, and responsive layout for seamless collaboration.
 - Implemented real-time synchronization with **Socket.io**, achieving sub-**100ms latency** for 50+ concurrent users.
 - Enhanced usability with debounced state updates and optimized network requests, reducing bandwidth usage by **30%**.
- **AI Agent Chatbot** | *JavaScript, React, Express.js, Gemini API, Server-Sent Events*
 - Developed a responsive **chat interface in React** with real-time streaming responses, ensuring smooth user experience across devices.
 - Integrated **Gemini API** via Express.js backend with function-calling for dynamic tool execution.
 - Implemented secure API authentication and error handling, improving production reliability.
- **High-Performance Huffman Compressor** | *C++, WebAssembly, JavaScript, HTML, CSS* | [LINK](#)
 - Designed an intuitive **browser-based UI** with drag-and-drop file upload and real-time progress feedback for text compression.
 - Implemented a **lossless Huffman compression algorithm** in C++, achieving up to **69% file size reduction**.
 - Used **Emscripten** to compile C++ into WebAssembly for high-speed, client-side compression directly in the browser.

ACHIEVEMENTS & LEADERSHIP

- Ranked **1st** on **GeeksforGeeks** (Institution) with a **1266 coding score** and **300+ problems solved** ([LINK](#)).
- Solved over **250+ problems** on **LeetCode** focusing on algorithms and data structures.
- **4* at HackerRank** ([LINK](#)).
- Achieved **Top 10** ranking in the **GDG on Campus Coding Competition** among 500+ participants.
- Completed **GfG 160-Day Problem Solving Challenge** with Summer Workshops ([LINK](#)).
- Won the **Best Project Award** at the **INNOVSENSE'24 Hackathon** for developing a carbon footprint analyzer system.