MD AKRAM

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PROFILE SUMMARY

Result-driven **Software Engineering Intern** with a passion for building impactful, user-centered applications that improve performance and scale efficiently. Skilled in designing and deploying end-to-end systems using **JavaScript, React, and Node.js**. Strong foundation in **data structures, algorithms**, and system design, with hands-on experience delivering products that enhance speed, reliability, and usability for real-world users.

TECHNICAL SKILLS

- **Languages:** JavaScript, C++, Java, Python
- **Core Strengths:** Algorithmic Thinking, Object-Oriented Design, System Optimization
- **Frontend:** React.js, Recoil, Tailwind CSS — delivering responsive user experiences
- **Backend:** Node.js, Express.js — built scalable APIs and microservices
- **Databases:** MongoDB, MySQL — efficient data modeling and querying
- **Tools:** Git, Postman, Docker, VS Code — enabling fast, collaborative development

EXPERIENCE

- **Innomatics Research Labs** — Jan 2025 – Mar 2025
  Full Stack Developer Intern — *Remote / Hyderabad*
  - Developed and launched **SwasthScript**, a distributed healthcare platform serving **10K+ users**, improving patient access and efficiency.
  - Reduced API response time by **60%** through asynchronous design and Redis-based caching.
  - Enhanced code reliability and maintainability by refactoring modules with **object-oriented design patterns**.
  - Partnered with cross-functional teams to improve uptime and scale infrastructure for peak loads.

PROJECTS

- **AI-Powered Fraud Detection System** | *Python, scikit-learn, pandas, NumPy* | **GitHub**
  - Detected fraudulent transactions with **92% accuracy** on 500K+ records, reducing manual fraud review by **70%**.
  - Built a data-driven risk assessment engine enabling faster and more reliable financial decisions.

- **Collaborative Real-Time Code Editor** | *React, Node.js, Socket.io, MongoDB* | **GitHub**
  - Enabled real-time collaboration for **50+ users** with under **100ms latency** using WebSockets.
  - Accelerated development through test-driven design and Docker-based continuous deployment.

- **High-Performance Huffman Compressor** | *C++, WebAssembly, JavaScript* | **GitHub**
  - Reduced file sizes by **69%** with a custom Huffman compression algorithm optimized to **O(n log n)** runtime.
  - Boosted browser performance by compiling compute-heavy modules into WebAssembly.

ACHIEVEMENTS & LEADERSHIP

- Ranked **1st** in GeeksforGeeks (Institution) with a **1434 coding score** and solved **300+ DSA problems** [Link].
- Solved **250+ LeetCode problems**, demonstrating consistent problem-solving and optimization expertise.
- Won **Best Project** at INNOVSENSE'24 Hackathon for an AI-based carbon footprint analyzer.
- Executive Member, Software Development Club — led sessions on DSA, Web Development, and clean code practices.
- Earned **freeCodeCamp Certification** in Responsive Web Design (300+ hrs coursework) [Link].

EDUCATION

- **KPR Institute of Engineering and Technology** — Jul 2022 – Present
  B.E. in Civil Engineering (CGPA: 8.67/10) — *Coimbatore, Tamil Nadu*
  - Transitioned into software engineering through hands-on projects, self-learning, and industry internships in full-stack development.