


MD AKRAM

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PROFILE SUMMARY

Full-Stack Developer with expertise in **data structures, algorithms, and machine learning**, building high-performance applications for fintech and payment platforms. Skilled in designing scalable systems, implementing data pipelines, and delivering solutions with measurable impact.

TECHNICAL SKILLS

- **Languages:** C/C++, JavaScript (ES6+), Java, Python.
- **Core CS Skills:** Data Structures & Algorithms, Object-Oriented Design, Complexity Analysis, Problem Solving.
- **Frontend:** React.js, Recoil, Tailwind CSS.
- **Backend:** Node.js, Express.js, REST APIs, WebSockets.
- **Databases:** MongoDB, MySQL.
- **Machine Learning:** scikit-learn, pandas, NumPy, EDA, Feature Engineering.
- **Production Tools:** Git, GitHub, Postman, VS Code, Docker.

EXPERIENCE

- **Innomatics Research Labs** Jan 2025 – Mar 2025
Full Stack Developer Intern Remote / Hyderabad
 - Engineered **SwasthScript**, a distributed MERN-stack healthcare system serving **10K+ users**, ensuring scalability and data security.
 - Optimized backend performance using **Redis caching** and asynchronous APIs in Node.js, achieving **60% latency reduction**.
 - Applied principles of **object-oriented design** and modular architecture to improve maintainability.

PROJECTS

- **AI-Powered Fraud Detection for Digital Payments** | *Python, scikit-learn, pandas, NumPy* | [GitHub](#)
 - Built an end-to-end fraud detection system analyzing **500K+ digital transactions** achieving **92% prediction accuracy** by implementing preprocessing, feature engineering, and Random Forest & Logistic Regression models.
 - Developed a **reusable ML pipeline** to automate fraud detection, reducing manual transaction review by **70%**.
 - Evaluated models using **precision, recall, and F1-score**, handling imbalanced datasets to ensure reliable predictions.
- **Collaborative Real-Time Code Editor** | *React, Node.js, Socket.io, MongoDB* | [GitHub](#)
 - Designed a distributed real-time code editor supporting **50+ concurrent users** with **sub-100ms latency** using WebSockets and concurrency control.
 - Implemented scalable system design principles and containerized services for deployment using Docker.
- **High-Performance Huffman Compressor** | *C++, WebAssembly, JavaScript, HTML, CSS* | [GitHub](#)
 - Implemented a **lossless file compression system** using Huffman coding, compiled to WebAssembly for browser execution.
 - Optimized algorithmic logic and data structures for **O(n log n) compression** achieving **69% file size reduction**.

ACHIEVEMENTS and LEADERSHIP

- Ranked **1st** on GeeksforGeeks (Institution) with a **1390 coding score** and **300+ DSA problems solved** ([LINK](#)).
- Solved **250+ problems on LeetCode** focusing on algorithmic optimization and problem-solving efficiency.
- Awarded **Best Project** at INNOVSENSE'24 Hackathon for developing an AI-powered carbon footprint analyzer.
- Served as an **Executive Member** of Software Development Club, mentoring juniors in DSA and Web Development.
- Completed **300+ hours of certification** in Responsive Web Design from freeCodeCamp ([LINK](#)).

EDUCATION

- **KPR Institute of Engineering and Technology** Jul 2022 – Present
B.E. in Civil Engineering (CGPA: 8.67/10.0) Coimbatore, Tamil Nadu