Mohammad Javad Dehfroz

Software Engineer | Data Science Systems Programming

▬▬▬ Summary

A results-driven Computer Science and Mathematics student at Amirkabir University, specializing in full-stack web development, data analysis, and low-level systems programming. Proven ability to architect, develop, and deploy robust software solutions through rigorous academic projects and professional freelance experience. Eager to apply advanced problem-solving skills to a challenging software engineering role.

▬▬▬ Key Competencies

- **Full-Stack Engineering:** Architecting and deploying responsive, scalable web applications using the MERN stack (React.js, Node.js, Express).
- **Systems Programming:** Utilizing C/C++ for OS-level development, including kernel modification, process scheduling, and concurrency management.
- **Data Analysis & Machine Learning:** Applying Python (Pandas, Scikit-learn) and R to manipulate data, derive insights, and build predictive models.

▬▬▬ Technical Skills

Proficient **Languages:** Python, C/C++, JavaScript (ES6+), Java | **Web Stack:** React.js, Node.js, HTML5/CSS3 | **Data Stack:** Pandas, NumPy, Scikit-learn

Familiar **Languages:** R, Assembly | **DevOps & Tools:** Git, Docker, GitHub, Shell Scripting | **Databases:** SQL (PostgreSQL), NoSQL (MongoDB)

▬▬▬ Projects

2024 Quran-Plus: Desktop Utility
A desktop utility for quick search and access to Quranic verses and multiple translations.
 GitHub: github.com/MohammadJavadQm/Quran-Plus

2024 xv6 OS Fork: Kernel Mod
Implementing deep modifications to the xv6 kernel to experiment with scheduling, processes, and file system concepts.
 GitHub: github.com/MohammadJavadQm/xv6

2023 Code HM6: Low-Level Arch
A project related to the Computer Architecture and Assembly course, including low-level hardware/software implementations.
 GitHub: github.com/MohammadJavadQm/codehm6

2023 OS-HW3: IPC & Sync
A set of exercises and projects related to the Operating Systems course, focusing on synchronization and Inter-Process Communication (IPC).
 GitHub: github.com/MohammadJavadQm/OS-HW3

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Professional Experience

2023–Present **Freelance Web Developer**, Remote
- ○ Spearheaded the development of end-to-end web solutions for freelance clients, managing the entire project lifecycle from ideation to deployment.
- ○ Engineered performant, responsive user interfaces with React.js, measurably improving user engagement and accessibility.
- ○ Built and maintained scalable, stateless back-end services and RESTful APIs using Node.js, ensuring high availability and reliability.

Education

2022–Present **B.Sc. in Mathematics & Computer Science**, *Amirkabir University of Technology*, Tehran, Iran

Additional Information

Languages Persian (Native), English (Professional Working Proficiency)

Achievements Awarded 4th Dan Black Belt in Karate, demonstrating exceptional discipline and long-term commitment.

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