Hossein Mohammadi Maklavani

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EDUCATION

2012 - 2016   **Bachelor of Science in Computer Engineering (Software)**
Qom Industrial University, Qom, Iran

Selected Achievements & Leadership

- **Winner** of the 5th Festival for the Production and Support of Electronic Content Creators (2015)
- **Full Tuition Scholarship**, Qom Industrial University (2012-2016)
- **Top Student** in Computer Engineering, Qom Industrial University (2013)
- **First Place** at the Roshd Festival (Multimedia teaching tool about football rules) (2010)
- **3rd Place** in the Taekwondo Youth Tournament (2008)
- **Other Awards:** Winner in Book Reading, Chess, Basketball, and Caricature (2005-2007)

Research & Analytical Experience

Nov 2019 - Present   **Co-Founder & CEO**, ReGITI, Tehran, Iran

- Investigated market needs and recommended strategic solutions that guided product development in tech-based educational services.
- Explored and examined the applicability of Next.js for building scalable community-driven applications.
- Studied user behavior to determine optimal technical solutions, enhancing overall user experience and engagement.

Sep 2022 - March 2024   **Frontend Developer,** Farakav (Varzesh3), Tehran, Iran

- Adapted Next.js, MUI, React, and Redux to build responsive and dynamic user interfaces, ensuring smooth and engaging user experiences.
- Designed and constructed front-end architecture, diagnosing performance issues and resolving bugs to enhance platform reliability.
- Engineered and modified reusable components, applying best practices to maintain a clean and efficient codebase.

Dec 2019 - June 2022   **Chief Technology Officer (CTO)**, Samaneh Motaghazi, Tehran, Iran

- Assessed emerging web technologies to predict future trends and optimize product strategies in the field of full-stack development.
- Evaluated project outcomes, offering recommended solutions to increase efficiency and scalability.
- Researched and defined technological frameworks for innovative 3D web solutions, leveraging React Native and Three.js.

- Detected and derived data-driven insights from project analysis, ensuring the successful deployment of technical projects.

July 2019 - Apr 2020   **Full Stack Developer**, Bookapo, Tehran, Iran

- Reviewed platform performance, critiqued current infrastructure, and recommended a transition from Joomla to Laravel, improving scalability by over 30%.
- Researched multimedia integration strategies, measured user engagement, and evaluated the effectiveness of new features such as a music player and interactive text.
- Analyzed platform data to discover key areas for optimization, leading to more efficient development practices.

Feb 2016 - Aug 2016   **Front-End Developer**, Ghalamestoon, Tehran, Iran

- Surveyed and compared frameworks, selecting React for its flexibility in developing user interfaces for educational platforms.
- Observed and interpreted user feedback to implement iterative improvements, enhancing the platform's accessibility and responsiveness.

Feb 2013 - Nov 2019   **LAMP & LEMP Stack Developer**, Digarsoo, Tehran, Iran

- Investigated project requirements and defined architectural frameworks that ensured scalable and secure applications.
- Studied and verified security protocols to safeguard sensitive user data, particularly in high-traffic applications.
- Examined codebases for inefficiencies, recommended and implemented optimizations, resulting in reduced load times by 20%.

Selected Research & Projects

Mar 2023 - Aug 2024   **Tlicho Dictionary Website**, CTO and Technical Team Lead

Technologies: React, Next.js, Postgres, Redis, Laravel, CI/CD
- Researched and analyzed the linguistic needs of the Tlicho community, recommended suitable technologies to build a highly interactive online dictionary.
- Derived insights from user data to ensure cultural and technical accuracy, incorporating 3D elements with Three.js.

May 2018 - Mar 2019   **Bookapo Platform**, Front-end developer

Technologies: Laravel, React, Joomla
- Examined the limitations of Joomla-based systems, detected inefficiencies, and recommended a Laravel-based solution for greater flexibility and performance.
- Assessed the integration of multimedia tools, increasing user retention by 25% through enhanced interactive features.

Certificates

- **Completion Certificate for Three.js Journey** | Certificate of WebGL (2024)
- **RoboCup Iran Open Competitions and Symposium** | Certificate of Participation, Qom Industrial University (2010)
- **RoboCup Training Course (2D Football Simulation)** | Tehran, Iran (2009)
- **Red Belt in Taekwondo** | Tehran, Iran (2007)
- **Basic and International Cooking** | Tehran, Iran (2017)

Technical & Research Skills

- **Programming Languages:** Python, C++, C, Java, JavaScript (TypeScript), PHP, C#
- **Machine Learning:** SLM Models (Phi and LLaMA)
- **Databases:** MongoDB, MySQL, NoSQL
- **Frameworks & Libraries:** Three.js, p5.js, React, Node.js, Next.js, Laravel, React Native
- **Robotics & Simulation:** Agent 2D, Robocup Soccer Simulation
- **Game Development:** Unity, WebGL, WebGL Shaders
- **Web Development:** MERN Stack, LAMP Stack, REST APIs, GraphQL
- **Version Control & CI/CD:** Git, Github CI/CD, Docker
- **Research Methodologies:** Data Analysis, Statistical Modeling, Predictive Analytics
- **Analytical Tools:** Python (for data analysis), Grafana
- **Design & Development Software:** Figma, Adobe Photoshop, Adobe Illustrator, Unity, Google Analytics
- **Productivity & Scripting Tools:** Bash, Microsoft Word, Microsoft Excel, Overleaf LaTeX
- **Project Management Tools & Skills:** Notion, Jira, Agile, Scrum, Confluence, Slack, Leadership in Remote Teams