

Khalil Mouawad

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Summary — Software Developer specializing in Full-Stack Web Applications and Machine Learning.

Skills

Languages:	Python, C++, JavaScript, TypeScript, Java, SQL, PHP, C, Scala, X++, C#
Frontend:	React, THREE.js, HTML, CSS, Styled-Components, CustomTkinter
Backend & Database:	Firebase (Auth, Firestore), Node.js, Flask, Vercel Serverless, MySQL, SQLite3, SQL Server
Developer Tools:	Git, Docker, Selenium, Pandas, Scikit-learn, OpenGL, Postman, Unix, LaTeX
Spoken Languages:	Arabic (Native), English (Fluent), French (Fluent)

Experience

MyStarty

Nov 2024 – April 2025

Sole Frontend Developer (MVP)

Remote

- Led full-cycle frontend development for the company's MVP, building and shipping 10+ responsive pages using React and TypeScript.
- Architected the entire user-facing application, including authentication, profile management, and subscription flows.
- Collaborated with the backend developer to design, integrate, and test REST APIs, ensuring seamless data flow and a polished user experience.

INDEVCO Group

Aug 2024 – Sep 2024

Management Information System (MIS) Intern

Zouk Mosbeh, Lebanon

- Enhanced Microsoft Dynamics AX ERP functionality by developing custom forms, tables, and methods in X++.
- Optimized database performance by designing relational structures and implementing real-time data synchronization.
- Configured user roles and security privileges across Sales and Inventory modules, improving data security and workflow efficiency.

Education

Holy Spirit University of Kaslik (USEK)

Kaslik, Lebanon

Bachelor of Science in Computer Science

Sept 2021 – May 2025

Projects

Invest'In Stock Simulator — React, Firebase, Vercel Serverless, News API

[Live Demo] [GitHub]

- Engineered a full-stack, real-time stock trading simulator with live market data from the Yahoo Finance API.
- Implemented secure user authentication and data management using Firebase Auth and Firestore for transaction logging.
- Deployed backend logic using Vercel Serverless functions for secure, scalable API interactions and data processing.

Cosmic Vision - NASA Hackathon — THREE.js, JavaScript, GSAP API

[GitHub]

- Developed an interactive 3D solar system model for the NASA Space App Challenge, fetching and visualizing real-time celestial object data.
- Implemented smooth camera controls and object animations using GSAP and integrated NASA APIs for Near-Earth Object (NEO) tracking.

Connect Four with AI — C++, OpenGL, Minimax Algorithm, SQLite3

[GitHub]

- Implemented a challenging Connect Four AI opponent using the Minimax algorithm with alpha-beta pruning for optimal performance.
- Built a scalable game engine in C++ and managed game state and user data efficiently using SQLite3.

Predicting Employee Attrition — Python, Scikit-learn, Pandas

[GitHub]

- Trained and evaluated multiple machine learning models to predict employee attrition, achieving highest accuracy with a Random Forest classifier.
- Conducted feature engineering and data visualization using Pandas and Matplotlib to identify key predictors of attrition.

Activities & Leadership

- **Open Source Contributor:** Contributed bug fixes to the core CPython repository.
- **IEEE Team Lead:** Led a team in the IEEE Xtreme 17.0, a 24-hour global programming competition, coordinating problem-solving under pressure.
- **Google Developer Group (GDG) Member:** Regularly engaged in technical workshops on emerging software development trends and best practices.
- **Asher Center for Innovation (ACIE) Member:** Contributed to organizing campus events focused on technology and entrepreneurship.