

James G. Khalifeh

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EDUCATION

Holy Spirit University of Kaslik (USEK)

B.Sc. Computer Science — Track: AI, Software Engineering & Machine Learning
GPA: 81/100

Expected July 2026

WORK EXPERIENCE

Full Stack Developer Intern

July 2025 – September 2025

Eddy's Group

- Built a full-stack web application using React.js, Laravel, and Python, covering frontend, backend API, and AI chatbot integration.
- Designed and implemented RESTful APIs with a focus on performance, security, and scalability.
- Connected all application layers end-to-end, ensuring seamless data flow and maintainable code structure.

Web Developer Intern

June 2024 – August 2024

SKEW

- Developed dynamic web applications and RESTful APIs from scratch using modern web technologies.
- Applied version control (Git/GitHub) and secure coding practices in a real-world development environment.
- Gained practical full-stack experience through end-to-end project ownership.

Virtual Reality Technology Intern

July 2023 – August 2023

Ofeq Int'l Company

- Wrote C++ code for VR applications, implementing interactive and immersive features to improve user engagement.
- Collaborated with artists, designers, and developers in a cross-functional team setting.

PROJECTS

AI Fire Detection & Evacuation System

2026

- Designed an intelligent fire detection system that computes the fastest evacuation path from every room in a building to the nearest exit.
- Implemented Fuzzy Logic to assess fire risk levels based on multi-sensor inputs (smoke, heat, proximity), enabling nuanced threat classification beyond binary detection.
- Applied the A* Search Algorithm to determine optimal escape routes in real time, dynamically rerouting around fire-affected areas.
- Integrated search and reasoning components into a unified Python system, demonstrating applied AI in a safety-critical scenario.

Hotel Booking Cancellation Predictor

2026

- Built an end-to-end ML pipeline in Python (scikit-learn) to predict hotel booking cancellations, including data preprocessing, feature selection, and model evaluation.
- Trained and benchmarked three classifiers — SVM, Decision Tree, and Logistic Regression — comparing performance across accuracy, precision, and recall metrics.
- Implemented a Voting Classifier (ensemble method) combining all three models, improving prediction robustness and reducing individual model variance.

House Price Prediction Model

2025

- Applied regression techniques with feature engineering and data preprocessing to predict property prices on a real-estate dataset.
- Compared multiple models using RMSE and R^2 metrics to identify the most reliable approach.

Mobile Wallet Application

2025

- Designed a mobile app for personal finance tracking with transaction history, balance management, and clean UI flow.
- Focused on OOP design patterns, data accuracy, and usability for everyday use cases.

TECHNICAL SKILLS

- Languages & Frameworks:** Java, C++, Python, JavaScript (React.js, Node.js), PHP, HTML, CSS
- Tools & Databases:** Laravel, MySQL, MongoDB, Git, REST APIs
- AI & ML:** scikit-learn, supervised/unsupervised learning, ensemble methods, neural networks (deep learning), reinforcement learning, search algorithms (A*, heuristic, adversarial), fuzzy logic, knowledge representation, propositional & first-order logic
- Languages:** Arabic (Native), English (Native), French (Intermediate)