

Hussein Chalhoub

Software Engineering Student | Full Stack Developer | AI & ML Enthusiast

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Summary

Adaptable and detail-oriented Software Engineering student at Saint Joseph University (ESIB) with strong experience in full stack web development and a growing specialization in Artificial Intelligence & Machine Learning. Skilled in Laravel, Inertia.js, PHP, Python, SQL, and modern web technologies, with practical experience in supervised & unsupervised learning, deep learning, regression, and classification. Successfully completed a Backend Engineer Internship at Spectre Middle East, multiple full-stack projects, and the “Machine Learning – Supervised Learning: Theory and Practice” certification with Fakker.AI & TheAIEngineers. Adept in Agile workflows, Git version control, and collaborative teamwork, with a proven ability to deliver scalable, maintainable solutions.

Experience

Backend Engineer Intern – Spectre Middle East – 07/2025 – 08/2025

- Developed and optimized backend services using Laravel.
- Designed RESTful APIs for authentication and data management.
- Structured relational databases and queries for scalability.
- Applied Agile methodology with Jira/Trello for task tracking.
- Collaborated in code reviews using GitHub version control.
- Key Project:** Contributed to the **School Management System**, building secure APIs for student, class, and authentication modules.

Freelance Full Stack Developer – 07/2023 – Present

- Built supermarket, restaurant menu, and e-commerce platforms.
- Implemented backend logic with Laravel and interactive frontends with Inertia.js.
- Deployed scalable solutions with AWS (S3 & Elastic Beanstalk).

Piscine – 42 Beirut – 03/2024 – 04/2024

- Completed a 4-week competitive programming bootcamp.
- Strengthened C programming, algorithms, and teamwork.

Full Stack Bootcamp – Telickers – 07/2023 – 10/2023

- Completed an intensive HTML, CSS, and JavaScript bootcamp.
- Built small web projects including a digital restaurant menu, a basic e-commerce site, and a currency exchange calculator.
- Gained practical experience in responsive design and front-end development fundamentals.

Education

Bachelor’s Degree in Software Engineering – Expected 2027

Lebanese University (LU), Beirut

Projects

Freelance Projects:

Home Appliances Platform:

- Built a comprehensive e-commerce platform for home appliances.
- Backend: Laravel (authentication, product/order management).
- Frontend: Inertia.js for a seamless single-page application.
- Features: stock management, role-based access control, admin dashboard.
- Deployed on AWS (S3 + Elastic Beanstalk) for scalability.

Supermarket Website:

- Designed and developed a dynamic supermarket website.
- Integrated product catalog, category-based navigation, and search functionality.
- Implemented Laravel backend for order processing and data handling.
- Ensured responsive design and user-friendly interface for customer browsing.

Restaurant Menu (Digital Menu App):

- Created an interactive digital menu for restaurants.
- Allowed real-time updates of menu items from the admin panel.
- Built with Laravel backend and a simple, responsive frontend.
- Focused on clean UI and usability for customers and staff.

Machine Learning Projects:

- Regression: Car sales prediction using Scikit-Learn.
- Classification: Logistic Regression, Decision Trees, and SVM models.
- Clustering: Applied K-means algorithm with evaluation metrics.
- Deep Learning: Built CNNs in TensorFlow/Keras for image classification.
- Performed data preprocessing, visualization, hyperparameter tuning, and evaluation metrics.

University Projects:

- Developed a lightweight Object-Relational Mapping system in Python.
- Abstracted SQL queries into Python objects to improve readability.
- Reduced repetitive code and simplified database operations.

Technical & Soft Skills

- **Programming languages:** Python, C, C++, PHP, JAVA, SQL
- **Tools and technologies:** Git, Linux, Shell scripting
- **Web development:** Laravel, Inertia.js, HTML, CSS, JavaScript
- **Databases:** MySQL, SQLite
- **AI & ML:** Supervised & Unsupervised Learning, Regression, Classification, Clustering, Deep Learning (CNN, Perceptron), TensorFlow, Scikit-Learn
- **Tools & Methodologies:** Git, GitHub, Linux, Agile (Jira, Trello)
- **Soft skills:** Problem-solving, Communication, Teamwork, Leadership, Adaptability, Project Management.

Languages

Arabic: Native | **French:** Fluent (educational background) | **English:** Fluent (technical/professional use)