

Malak Faour

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BRIEF SUMMARY

Full-Stack Developer and AI Engineer with hands-on experience building production-grade web applications, internal dashboards, workflow automation systems, and AI-integrated backends using Node.js, React, Python, FastAPI, and PostgreSQL. Experienced in delivering end-to-end solutions with a focus on data visibility, operational efficiency, and intelligent feature integration across the full stack.

EDUCATION

Antonine University

B.Eng. Computer & Communications Engineering (Master's Level), *Software Engineering*

Baabda, Lebanon

Expected Graduation: 2028

EXPERIENCE

Tabbeq AI | Web Developer Intern

Beirut, Lebanon

[GitHub](#)

June 2025 – August 2025

Tools: ASP.NET Core MVC · C# · Entity Framework Core · SQL Server · HTML/CSS · JavaScript

- Designed and delivered a full-stack e-commerce platform for a luxury jewelry brand with product browsing, advanced search and filtering, and a complete checkout flow with stock validation, order confirmation, and admin workflow management.
- Engineered a dual-mode cart and favorites system supporting both guest and authenticated users with seamless session-to-database merging on login and secure password hashing.
- Collaborated in an Agile team on ERP workflows, owning the full project lifecycle from design to delivery while contributing to internal operational tooling and data management features.

PROJECTS

TripMate | Node.js · Express · PostgreSQL · JWT · React · FastAPI · LangChain · Mistral

[GitHub](#)

- Developed a full-stack platform with Node.js, Express, and PostgreSQL featuring dual-layer auth (JWT and sessions), an end-to-end booking workflow with email notifications, data filtering, and a role-based admin dashboard for managing trips, hotels, bookings, and customer inquiries with export-ready data views.
- Integrated a FastAPI microservice powering a context-aware AI chatbot using LangChain and Mistral that queries live inventory to deliver real-time recommendations and automatically captures leads for advisor follow-up — demonstrating AI integration into a business workflow.

PulseWatch | Python · FastAPI · React · PostgreSQL · Docker

[GitHub](#)

- Built an automated operations monitoring system with async polling workers, retry logic, and a rule-based alerting engine detecting anomalies and triggering structured incident lifecycles with SMTP and Slack notifications — improving operational visibility and response automation.
- Engineered a CSV data export reporting pipeline, a React/TypeScript live KPI dashboard with latency trend filtering, and decoupled background evaluation loops for concurrent monitoring, with Pytest coverage across core evaluation layers.

SOC Intelligence Platform | Python · LightGBM · XGBoost · TabNet · Optuna · FastAPI · React

[GitHub](#)

- Architected a full-stack intelligence platform with a FastAPI backend serving three switchable ML models trained on 99K records, achieving 91.8% classification accuracy with structured output evaluation to flag misclassifications and improve triage accuracy.
- Built a React/TypeScript console featuring live inference, alert queue management with filtering, remediation review workflows, and model analytics dashboards — delivering an end-to-end internal tool for operational decision-making.

SKILLS

AI & LLMs: LangChain, Mistral, Prompt Engineering, RAG, Embeddings, Agent-Based Systems, OpenAI API

Languages & Frameworks: Python, JavaScript (React, Node.js, Express), HTML, CSS, jQuery, FastAPI, C#, Java, Spring Boot, .NET

Backend & APIs: REST APIs, JWT, SQLAlchemy, Alembic, Entity Framework, Sequelize

Databases: PostgreSQL, MySQL, SQL Server, MongoDB

Machine Learning: LightGBM, XGBoost, TabNet, scikit-learn, Optuna, pandas, NumPy, Feature Engineering

DevOps & Infrastructure: AWS, Docker, GitHub Actions (CI/CD), Vercel, Render, Linux, Nginx

Testing & Tooling: pytest, Postman, Git/GitHub

Languages: English (Fluent), Arabic (Native)

CERTIFICATIONS

DataCamp: Understanding Machine Learning, Intermediate Python, Introduction to AI Agents

Educative: MCP Fundamentals, ML for Software Engineers | **Neo4j:** Neo4j & Generative AI Fundamentals