Hajar Kattaa
Computer and Communications Engineer

About

- Beirut, Lebanon
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Frontend

React.js Tailwind CSS
HTML CSS JavaScript
Next.js MUI Ant Design

Backend

Node.js Express.js
MongoDB SQL

Mobile

Flutter Dart

AI/ML

OpenAI LLMs (GPT-4)
CrewAI LLaMA 3
AI Model Training

Tools

GitHub Azure DevOps
Figma Azure Pipelines

Networking

CCNA Routing & Switching

Experience

CME Offshore
07/2024 - 08/2024
Beirut, Lebanon
AI & Mobile Development Intern

- Developed AI-powered chatbot using Flutter (mobile) and Dart.
- Trained and integrated a Llama 3-based model using company intranet data via Hugging Face and GPT4All.
- Built secure local storage with ISAR and implemented auth/profile flows.
- Collaborated with UI designer on Figma and used OOP architecture.

Imperium Code
12/2023 - 05/2024
Remote
Part-Time Software Engineer

- Handled data migration and transformation for a US-based client.
- Built technical diagrams and contributed to ERP systems.
- Automated testing via Python scripts.
- Contributed to CI/CD via Azure Pipelines.

Imperium Code
09/2023 - 12/2023
Remote
Software Intern

- Built configuration tool using Ngx-admin, Node.js, and MongoDB.
- Created Python-based visualization scripts.
- Collaborated on backend logic and agile development.

Open Source Projects

Obfuscation and Deobfuscation Using LLMs
01/2025 - 05/2025
Capstone project leveraging LLMs for multi-format code obfuscation and deobfuscation using a multi-agent system.

- Designed and implemented a multi-agent system using CrewAI and GPT-based models.
- Supported Python, JavaScript, and binary code formats.
- Improved readability and effectiveness over baseline GPT results.
- Engineered a functioning prototype with integrated automation and language parsing.

Pulmonary Disease Detection Web Platform
11/2023 - 01/2024
Full-stack MERN application integrating ML for chest X-ray classification.

- Frontend with React, MUI, and Ant Design.
- Integrated ML model into Node.js/Express backend.
- Managed MongoDB-based data and prediction handling.

Hire Harbor – Job Matching Platform
10/2023 - 12/2023
MERN stack job platform with matching engine and admin/user portals.

- Built responsive interfaces with React.
- Designed backend with Node.js and MongoDB.
- Integrated secure matching logic and UX design.

Education

Saint Joseph University of Beirut (USJ)
09/2021 - 05/2025
BE Computer and Communications Engineering