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Summary

Full Stack Developer with strong experience building end-to-end web and mobile applications integrated with machine learning and AI-driven features. Skilled in developing scalable backends, modern frontends, and deploying AI models for real-world use cases including classification, prediction, and retrieval-augmented generation.

Projects

AI Powered Hybrid Resale Platform (Final Year Project)

- Developed a **hybrid resale system** integrating a React Native mobile app, React admin dashboard, and physical store workflow.
- Implemented **AI-based product category classification and price prediction** using TensorFlow and ONNX.
- Built a **Node.js (TypeScript) backend** with PostgreSQL for secure, scalable data management.
- Enabled item tracking, package management, delivery requests, and sales monitoring.

PDF-RAG-FastAPI – Retrieval-Augmented Generation (RAG) Project

- Used SentenceTransformers to generate embeddings and FAISS for semantic search over PDF documents.
- Integrated Ollama LLM locally to provide context-aware question answering.
- Developed a FastAPI backend to serve the Q&A system efficiently.
- Built and tested a minimal front-end to interact with the backend in real time.

Chest X-Ray Disease Detection – Deep Learning Project

- Built a deep learning model to classify chest X-ray images as **Normal** or **Pneumonia**.
- Preprocessed images: resizing, normalization, and data augmentation to handle class imbalance and reduce overfitting.
- Evaluated model using **accuracy, precision, recall, F1-score**, and confusion matrix.
- Visualized training and validation performance (loss & accuracy curves).

Education

Lebanese International University
Bachelor of Sciences Computer Science

Beirut
2022-Present

Skills

Languages: Python, Java, TypeScript, Dart, SQL, PHP

Backend: Node.js, FastAPI, REST APIs, Authentication & Authorization

Frontend & Mobile: React, React Native, HTML, CSS

AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, RAG, LLMs, SentenceTransformers, ONNX

Databases & Search: PostgreSQL, MySQL, SQLite, FAISS

Data & Tools: Matplotlib, Seaborn, Plotly, Git, GitHub, Linux, Jupyter, VS Code, Google Colab

Languages

English: Full professional proficiency | **Arabic:** Native | **French:** Intermediate