

OMAR CHEHAB

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EDUCATION

Bachelor in Computer and Communication Engineering

Aug 2022 – Jun 2026

American University of Beirut

GPA: 3.53

Relevant Coursework: Data Structures and Algorithms, Machine Learning, Database Systems, Electric Circuits, Signals and Systems, Computer Networks

French Baccalaureate

Sep 2008 – Jun 2022

Lycee Abdel Kader

EXPERIENCE

AI Intern – Khatib & Alami

- Worked on AI-focused projects including OCR systems and anomaly detection models.
- Gained hands-on experience with ArcGIS and ArcGIS Pro.
- Contributed to GIS-based projects involving spatial data analysis and visualization.
- Applied AI solutions in engineering and infrastructure contexts.

Research Assistant – VideoGraph Research Project, AUB

- Worked on a graph-based framework for video question answering and retrieval.
- Developed automated evaluation pipelines for benchmarking AI video systems.
- Implemented graph visualization and retrieval analysis tools.
- Conducted research on VideoQA architectures, datasets, and evaluation metrics.

PROJECTS

AI Property Management System (Final Year Project)

- Developing a web-based AI-powered platform for property owners and tenants.
- Features include rental management, chatbot assistance, predictive maintenance, fraud detection, and online payments.
- Designed with microservices architecture and scalability in mind.
- Deployed containerized services on Microsoft Azure cloud infrastructure.
- Configured CI/CD pipelines using GitHub Actions for automated testing and deployment.
- Integrated Cloudflare for HTTPS and web traffic management.
- Technologies: Python, HTML, Docker, Scikit-learn, Microsoft Azure, Cloudflare, GitHub Actions, JWT.

AI Healthcare Assistant

- Developed a system to assist doctors in analyzing MRI images and clinical data.
- Applied machine learning techniques including anomaly detection.
- Performed extensive data preprocessing and model evaluation.
- Deployed containerized services using Docker, Kubernetes, and cloud infrastructure.

Aerial Landmark Detection

- Built a deep learning pipeline for real-time landmark detection in aerial images.
- Experimented with YOLO and Faster R-CNN models.
- Optimized performance and evaluated detection accuracy.

Restaurant Database Management System

- Designed a database managing customers, orders, and employees.
- Improved data retrieval efficiency.
- Technologies: Python, PostgreSQL, HTML.

Chatting Application

- Developed a messaging application with private/group chats and read receipts.
- Built backend logic and user interface.
- Technologies: Python.

Android Network Statistics Application

- Built an Android app to monitor real-time network usage.
- Implemented automatic data refresh every 5 seconds.
- Used secure JWT-based authentication.
- Technologies: Java, Android Studio, Python.

SKILLS

Programming Languages: Python, Java, C++, Assembly, Verilog, SQL, JavaScript, HTML, CSS

Tools & Software: VS Code, PyCharm, Git, GitHub Actions, PostgreSQL, SQLite, Docker, Kubernetes, Wireshark, Vivado, ArcGIS Pro, LabView, OrCAD PSpice

Libraries & Frameworks: TensorFlow, PyTorch, OpenCV, Pandas, Scikit-learn

Cloud & DevOps: Microsoft Azure, Cloudflare, Docker, CI/CD Pipelines

Languages: Arabic, French, English