

Mohmad Ali El Bakawi

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Education

American University of Science and Technology

Zahle, Lebanon

Bachelor of Computer Science, Data Science emphasis. GPA 3.67/4.00

October 2022 - June 2025

Projects

Lebanese Leagues Soccer Database:

March 2024 - May 2024

- Designed an **SQL database** to efficiently store large volumes of data in **over 10** associated tables.
- Enforced **2nd normal form** and designed **complex queries** for business logic.
- Designed and implemented a GUI using VBA to allow manipulation of the database, MS Access was used.
- Another version of this Database was implemented via **SQLITE 3** on python.

Ultra High Resolution Image Streamer Android App:

June 2024 - June 2024

- Designed and implemented a mobile App using Android Studio, Java and XML.
- Developed a **data streaming and image tiling system** to handle **20Kx20k ultra high resolution images**.

ML powered Lies and Bias detector for News Articles:

November 2024 – January 2025

- Analyzed datasets for useful data and patterns.
- Utilized Python Tensor Flow and Data Science techniques to train detection model.
- Made use of insights derived from analyzing datasets for training and designed a GUI.

GlowA Dermatology:

December 2024 - January 2025

- Designed and Implemented a **Flutter** and Firebase **Health App** which won 2nd place at the LIU pharmacy day.
- Created and deployed a **machine learning based skin health image classifier**, which optimized recommendations.
- **Converted** vague client requirements into a fully working application.

Resume Scanner Flask App:

February 2025 - March 2025

- Designed a **resume scanner** in python using sentence transformers.
- Implemented a pdf to json parser and **NLP algorithms** to generate a 'fit for job' percentage.
- **Hosted** the app on **Huggingface** using **Docker** for other projects to use.

SkillXchange:**December 2024 - May 2025**

- Designed and implemented the system architecture using **MVVM**, the business logic and intuitive GUI.
- Made use of the **waterfall** design approach and programming best practices for security and performance.
- Integrated **multiple API's securely** by using **azure key vault** and the respective API documentation.
- Designed custom features including **AI powered resume grading, job matching filters**.
- **Designed fraud prevention mechanisms** to enhance user experience and system integrity.

AUSTFight:**June 2025 – August 2025**

- Created a 2D **Game engine** for a turn based **local multiplayer** strategy game using **Kotlin** and **XML** for a coding event.
- Designed a robust **network service, on device storage** of custom maps and a **grid-based system**.
- Made use of **MVVM** for a robust architecture.
- Used **material themes**, music and custom sprites to stylize the game.

ARExplore:**September 2025 – November 2025**

- Created an **Augmented Reality Engine** using.
- Designed a pipeline for transformation of coords into real time **position accurate AR Tags**.
- Used **Code Obfuscation** via proguard and ran closed tests and security checks on **MobSF**.
- Uploaded the App into **Google Play** via **Play Console** and received **approval for production**.

Experience**Data Science Internship at CodSoft:****June 2024 - August 2024**

- Completed tasks including data gathering, preparing and model training.

AUST Coding Camp Instructor:**August 2025- September 2025**

- Helped organize the event. **Taught** 2 teams that **won 2nd place** in the AUST Zahle and Bhamdoun Coding Camps.

AI Literacy Instructor:**September 2025 - October 2025**

- **Instructed** Highschool students **over 6 weeks** on the various types and niches of **GenAI**.
- **Oversaw** a project which used AI for code, **3d modelling**, Voiceovers, **image generation** and research.
- Presented the projected **to Minister of Technology and AI**, His Excellency Dr. Kamal Shehadi.
- Received a **certificate of appreciation** from the Ministry of Technology and AI.

Relevant Coursework and Certifications

- Microsoft AI 900, Harvard CS50 AI, Harvard CS50 X, Cisco CCNA badge, Cisco ENSA badge.
- CSI Java Expo Winner award.
- ILETs (2025) Grade 8/9.

Skills

- Programming Languages: Kotlin, Python, Dart, C, Dart, JavaScript.
- Web: HTML, CSS, JavaScript, XML, JSON.
- Databases: MySQL, MSSQL, MS Access, NoSQL, Firestore, SSMS, SQLite.
- Frameworks & Tools: TensorFlow, JupyterLab, Flutter, Android Studio, Vscode, Visual Studio.
- Language: English, German, Arabic.
- Soft Skills: Work well under pressure, problem solving skills, communication skills, trouble shooting.