

## Ismail Allouch

### EDUCATION

|   |                           |
|---|---------------------------|
| <b>American University of Beirut</b> , Beirut, Lebanon  | <b>From 9/21 to 12/24</b> |
| Bachelor's degree in Computer and Communications Engineering<br>Distinction Graduate  |                           |
| <b>Lebanese American University</b> , Beirut, Lebanon   | <b>From 9/19 to 6/20</b>  |
| Freshmen Science degree<br>First-year Computer Engineer degree<br>Received a scholarship for great academic performance during my first year. |                           |

### EXPERIENCE

|   |                          |
|---|--------------------------|
| <b>Murex – Software Engineering Java Intern</b>   | <b>From 5/24 to 8/23</b> |
| <ul style="list-style-type: none"><li>Automated download file generation processes, introducing new efficiencies across multiple services in the MX3 platform.</li><li>Tested and validated solutions to ensure reliability and accuracy through all validation stages.</li><li>Documented work for future teams to implement automation in their services and collaborated within an agile team structure.</li><li>Utilized Maven for project management and Perforce for version control.</li></ul> |                          |
| <b>American University of Beirut - Undergraduate Research Assistant</b>   | <b>From 8/23 – 10/24</b> |
| <ul style="list-style-type: none"><li>Led a team of four in database design, data modeling, and system development for a Human Digital Twin dedicated to medication monitoring.</li><li>Employed MySQL as the robust Database Management System (DBMS) for secure patient data storage.</li><li>Utilized data modeling tools, such as Entity-Relationship Diagrams (ERD), for database schema design.</li></ul>   |                          |
| <b>Saka Senegal - Data Quality Analyst Intern</b>   | <b>From 3/23 to 4/23</b> |
| <ul style="list-style-type: none"><li>Ensured data accuracy and consistency in databases.</li><li>Designed and implemented efficient Excel tables for data storage.</li><li>Conducted data validation to maintain quality standards</li><li>Empowered teams with data for informed decision-making.</li></ul>   |                          |

### PROJECTS

#### Terminal Chat Application:

- Worked with a partner to develop a reliable peer-to-peer application with UDP chat tested under unreliable channel conditions and TCP file transfer which allowed for transferring files of any type (media, voice messages).

#### Handwriting-based ADHD screening tool:

- Developing a handwriting-based ADHD screening tool that utilizes machine learning algorithms to analyze handwriting patterns, enabling early detection of Attention-Deficit/Hyperactivity Disorder (ADHD) and providing a non-invasive and accessible tool for healthcare professionals and educators.

#### Pharmacy Database system:

- Created a comprehensive pharmacy database system using MySQL and ERDs to efficiently manage patient data, inventory, and prescriptions. Developed the backend with Python and optimized the frontend using HTML, CSS, and React for an enhanced user experience.

#### Traffic Object Detection:

- Developed a robust object detection model for identifying and locating cars, bikes, pedestrians, and buses in images.

### CERTIFICATIONS AND AWARDS

#### IBM Data Science Professional Certificate:

- Completed 9 courses spanning 10 months, gaining expertise from implementing tens of ML models to gain insight from raw data.

#### Microsoft Certified in Transact-SQL:

- Learned the necessary skills needed for Transact-SQL which allowed me to be proficient in managing and manipulating data in Microsoft SQL Server databases.

#### ZAKA AI Bootcamp:

- Completed a 1-month intensive boot camp that covers the fundamentals of artificial intelligence, data science, and deep learning, developing AI-powered tools.

#### Entrepreneurship Certification:

- Participated in various workshops and sessions aimed at developing key skills such as emotional intelligence, marketing, leadership, and public speaking.

#### R language certification:

- Covers concepts of statistical analysis, data visualization, and machine learning using R programming, including data manipulation, regression analysis, and decision trees.

#### Title IX Active Member Award:

- Recognized by Title IX at the American University of Beirut (AUB) for active involvement in campus initiatives supporting equity and inclusion.

### VOLUNTEERING

#### Title IX - Committee member:

- Collaborated with a diverse student team to enhance campus safety, including organizing safety events, conducting audits, and liaising with security and local authorities.

#### MINDS Student Network – Member at Large:

- Organized and led mental health workshops and awareness campaigns, providing a safe space for open discussions and sharing of experiences among peers.

#### Banin Charity Organization – Development Volunteer:

- Designed a customized CRM system tailored to efficiently manage and track orphan donations, streamlining the process and ensuring transparent communication between donors and beneficiaries.

### SKILLS

**COMPUTER SKILLS:** Java, Python, R programming language, SQL, C++, Excel, Cloud Computing, Django, HTML.

**LANGUAGES:** Fluent in English, Arabic and intermediate knowledge in French (**Delf A2 French Language Certificate**).

**SOFT SKILLS:** Leadership, Communication, Team-Building, Organizational, Management and Public Speaking.