

# MOHAMAD ABOU SALEM

## INFO

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## SKILLS

### Languages

Arabic, English

### Software

Java, Android Programming (Java/Kotlin & Android Studio), MySQL (Databases), PostgreSQL, NoSQL (MongoDB), C++, Python, HTML5, Assembly Code, Linux Operating System, Wireshark, Django, Flask, React, React Native, Angular, Swift, Java Springboot

### Social Media Platforms

Instagram, LinkedIn, Twitter

### Other

Research, Teamwork, Management, Networking, Innovation, Creativity, Continuing Education, Persistent, Curious, Hard Working

## ACTIVITIES

Participated in **> 60 hours of Community Service** 2012 - 2017 – Beirut, Lebanon (City International School)

Participated in **Ajjalouna Nonprofit Organization** 2015 - 2016 – Beirut, Lebanon (City International School – earned a certificate)

## EDUCATION

### Bachelor of Engineering in Computer & Communications Engineering

American University of Beirut – Beirut, Lebanon

09/2017 – 06/2022



## PROJECTS/EXPERIENCES

### AUB Projects

- **EECE 501 & 502 (Final Year Project) – Sept 2021-May 2022**

In recent days, the use of mobile applications in higher education institutions is advocated for a finer student experience. There is no mobile application for AUB students. Instead, AUB has multiple online systems, like aubsis, moodle, office 365 and the AUB website. Therefore, it is valuable to implement a system that provides centralized access to all those tools and supports both Android and IOS. We implemented our HowToAUB app using React Native as the frontend, combined with Flask and MySQL database as the backend. We provide a fully functional mobile application that includes many features such as combined access to aub platforms like aubsis and aub moodle, university Map, the ability to view courses, clubs and places to study, access to a guide forum with post and features, check news and events page filtered by the users' interest, Calendar containing deadlines with a send notification alerts feature, and an admin page to provide control over the app.

Link to the project: <https://github.com/MoeAS/FYP-How-to-AUB>

- **EECE 455 (Cryptography and Networks Security) – Fall 2021-2022**

Developed an AES Encryption/Decryption JavaScript program. 128/192/256 bit Key Encrypt & Decrypt.

The project was developed using Javascript, HTML, and CSS.

Try it out here! <https://moeas.github.io/AES-Cryptography/>

Link to the project: <https://github.com/MoeAS/AES-Cryptography>

- **EECE 430 (Software Engineering) – Spring 2020-2021**

Developed a Healthcare online consultation system, with the help of my peers (6 members including me), we were able to help a clinic that provides outpatient care services in addition to some limited form of online consultation. The clinic wishes to extend its online consultation services by asking a large software development company to provide a new online consultation system that meets its needs.

The project was developed using Django, Python, HTML, CSS, JS, and SQL DB.

Link to the project: <https://github.com/MoeAS/Healthcare-Online-Consultation>

**More projects can be found on my LinkedIn page!**

### Work Experiences

- **Frontend Developer Freelance** Nov 2023 – Dec 2023 – Remote (Muscat, Oman)

Worked on this project as a frontend developer using Angular & Bootstrap frameworks. This project was developed under the influence of efficiency, code readability, and organized to allow future developers to easily understand and change if any is needed. Also used Angular Security (DomSanitizer) to prevent Cross Site Scripting Security bugs, to use safely submit user input, working against hackers interchanging the values.

Sample Website can be found here: <https://360remitwebsite.netlify.app>

- **Software Engineer at Cedurs Digital** Sept 2022 – Dec 2023 – LeMall Dbayeh Offices, Lebanon

Engaged on two projects Mercedes Benz USA & Canada and AccuPredict (formerly known as Accujoint) .

Served as a fullstack developer on the MBUSA and MBCanada using Angular as the frontend framework tool to develop a telematics reporting interface for their business team that helps them visualize all the transactions and activities that the dealerships are maintaining, and an interface to help dealers check their positioning and keep up with their dealership status throughout multiple regions, and backend using Java Springboot to handle all of the logic for getting and reporting the information displayed for the cars (VIN, FIN, vehicle model, etc...).

Served as a fullstack developer on AccuPredict project as an iOS developer (using Swift), backend (using TypeORM and Typescript), infra/cloud (using AWS), Frontend Website (using Angular) , and lastly machine learning (Using CreateML). The application is specifically made for iPads, working closely with Dr. Friedrich Boettner on this project, the app is made for doctors whose specialty is in knee and hip surgeries, and nurses to keep up with patient information before and after surgery/replacement. The app allows the doctor to add patients, use the camera to pinpoint certain points on a joint X-RAY (for example locating greater trochanter on a knee xray using CreateML models trained) where there are multiple modules that the doctor could perform an analysis on the patient and save those xrays and analysis in the database. The app also allows for the patient to perform a survey and predict the outcome (also using ML) of what the patient's outcome of the surgery would be. The project overview consists of many biological and complicated terms meant for doctors which would take a lot of space to cover, but the mentioned above is enough to understand from a developer standpoint.

The website for AccuPredict can be found here: <https://www.accu-predict.com/>

- **Internship Trainee at Solidere BBN** Jun 2021 - Jul 2021 – Beirut, Lebanon

Solidere BBN (operated by Crystal Networks) is the ISP which caters to the tenants within the geographical area of Solidere with high end services such as Internet and IPTV (and others) over its Fiber To The Building (FTTB) network. Throughout my internship I worked closely with the HelpDesk Support Engineers and engaged in educational sessions with the NOC team.

### Personal Experiences

- **Android Application (December 2020)** – Created an Android application for a colleague in order to evaluate cell network data in real-time and save the data in a SQLite database of the cell device used.
- **Router Configuration (2019-Present)** – Self-learned how to configure routers and use them for network bridging.
- **Computer Hardware (2014-Present)** – Built multiple PCs from scratch and integrated the units together to have a functional one, and gained more knowledge on CPUs, Motherboards, RAMs, GPUs, PSUs, HDDs, SSDs, and Cable Management.