

MOHAMAD EL KASSAR

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Ain El Time
Beirut, Lebanon

EDUCATION

BE Lebanese American University, Computer Engineering Sep 2016 – Dec 2020
Related Course Work: Intelligent Engineering Algorithms, Intelligent Data Processing Algorithms, COE Applications, Computer Networks, Software Engineering, Data Structures

PROFESSIONAL CERTIFICATIONS

SAP Cloud Analytics – SAP Dual Study Program at LAU In Progress

EXPERIENCE

Shabeb Delivery, Beirut, Lebanon Jun 2020 - Present
Software Engineer

- Designed and developed a scalable dispatching algorithm using Redis Geospatial Indexing and Socket IO.
- Developed REST APIs for the vendor's platform using Node JS and Express JS.
- Worked on a scheduling system for the drivers using Node JS, Express JS and React
- Deployed the web application on AWS and managed the teams accounts using security groups and AWS Identity and Access Management.
- Developed a mobile application using Flutter.

Shabeb Delivery, Beirut, Lebanon Oct 2019 – Dec 2019
Part-Time Software Engineer

- Planned and developed a delivery fleet project
- Built an IoT device using ESP8266 for requesting deliveries.
- Designed a MySQL database
- Worked on developing a mobile application for drivers using Android Studio

Presentail, Beirut, Lebanon Aug 2019 – Oct 2019
Software Developer Intern

- Part of a team in charge of creating a website using Bubble.

PROJECTS

Pneumonia Detector

- Collaborated with medical students on a project where the resident signs into the platform and uploads a chest X-Ray image. Then the program detects if pneumonia is present or not.

- It is written using Python.
- MySQL is used to manage the data and user activity.
- Tensorflow and Keras libraries were used for machine learning.
- Data used for machine learning is available online.

Path Finder using Intelligent Algorithms

- Developed a game using Unity Engine regarding two different AI agents where one of them leaves dirt around the room and another cleans the room intelligently.
- It was written in C#
- We used Breadth First Search first, then experimented with other algorithms like Djakstra and Bellman Ford.
- For controlling the two agents, we used minimax algorithm.

Covid-19 Contact Tracing Application

- A mobile application that helps reduce the spread of Covid-19.
- Written in JAVA using Android Studio.
- Back-End is written using Node.js and Express.js.
- Contact between two users is done using WiFi Peer-to-Peer.
- Data between two users is exchanged using sockets.

LANGUAGES

English: Fluent

Arabic: Fluent

French: Intermediate

COMPUTER SKILLS

Competencies: Problem Solving, Critical Thinking, Adaptability

Programing Languages: Python, JavaScript, SQL, JAVA, Dart

Libraries/Frameworks: React, Flutter, Node JS, Express JS, TensorFlow

DevOps: AWS EC2, AWS Amplify, AWS RDS, Azure DevOps

Database: MySQL, MongoDB, Redis

Tools: Git, Postman, Jira, Asana, Arduino IDE

Other Skills: Data Structures, Algorithms

