



Assaad El Halabi

Software Engineer


I'm Assaad, a dedicated Software Engineer with a fervor for problem-solving. Dive deeper into my journey at [assaadportfolio.vercel.app](#) for a personal glimpse into my work.

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WORK EXPERIENCE

Software Engineer Oreyeon

07/2022 - Present

Achievements/Tasks

- Integrated multiple services and APIs to build advanced applications, collaborating with front-end and machine learning teams for seamless service integration.
- Managed backend infrastructure using Node.js (Typescript), Python, AWS Lambda, and API Gateway; implemented a local development environment and a CI/CD pipeline for efficient application lifecycle management.
- Led two teams in implementing and maintaining data services with dockerized Lambdas and Step Functions, ensuring system robustness and scalability.
- Developed dockerized internal tools and CI/CD pipelines for various deployment stages, leveraging Github actions and AWS Codebuild for automated checks in PRs, supplemented by manual code reviews.
- Conducted thorough quality assurance and testing, regularly updating critical libraries for compatibility and efficiency.

Python Developer American University of Beirut

01/2021 - 06/2021

Achievements/Tasks

- Automating data pre-processing and visualization pipelines and tasks using Python.
- Collaborating with team members and professors to customize an interface to interact and visualize Beirut explosion data and insights.
- Detecting demographic patterns of the explosion aftermath aimed at guiding future research.

Contact : Fatima Abu Salem - fa21@aub.edu.lb

EDUCATION

Computer Science (MS) American University of Beirut

09/2021 - Present

Computer Science (BS) American University of Beirut

09/2018 - 06/2021

Major GPA: 3.7/4

SKILLS

Web Development

AWS Lambda

Python

Java

Typescript

PostgreSQL

MySQL

AWS Cloud Services

Agile Methodologies

Docker

Linux Bash Scripting

Git

CI/CD pipelines

Node.js

Research

PERSONAL PROJECTS

JSColab (04/2023 - Present)

- Zero setup notebook based Javascript environment for fast prototyping, inspired by Google colab, but for Javascript and React. Can import any npm library dynamically.

ACM Paper Reviewer (12/2023 - Present)

- Reviewed the paper 'Scoring Multi-hop Question Decomposition Using Masked Language Models' for *ACM Transactions on Asian and Low-Resource Language Information Processing*.

Arabic Chatbots with little data (01/2024)

- Developed Arabic Conversational models powered by meta-learning and paraphrase-augmentation with little data as part of my master's thesis.
- Used Python, Google Colab, background jobs for automating splitting data and augmenting the partitions.

AUB-Course-Lookup (02/2022 - 03/2022)

- Lookup course sections, instructors, and free rooms.

WeTube (11/2021 - 12/2021)

- YouTube Clone using ReactJS and ASP.NET Core.

Emotion and Face pose Classifier (01/2021 - 04/2021)

- Predicts emotion and if you are looking at the camera.

HONORS AND AWARDS

MEPI TLG LIDS Masters Scholarship (2021 - Present)

USAID USP Scholarship (2018 - 2021)

Awarded a full Scholarship by USAID at The American University of Beirut.

Dean's Honor List

Recognition for outstanding Academic Achievement in Senior year.

LANGUAGES

English

Full Professional Proficiency

Arabic

Native or Bilingual Proficiency

Portuguese

Native or Bilingual Proficiency

Spanish

Professional Working Proficiency