

Karim Ghaddar

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OBJECTIVE

Software Engineer with a strong background in web development, DevOps, and automation. Experienced in designing and building **n8n workflows from scratch**, including using n8n as a backend for web applications and integrating external APIs. Skilled in backend development, workflow orchestration, and process optimization. Seeking to leverage strong problem-solving skills and technical expertise to contribute to innovative and scalable software solutions. Passionate about building high-quality systems and continuously advancing in software development and automation.

EXPERIENCE

From 09/25-12/25

Internship at maids.cc

During my time at **maids.cc**, I worked on multiple automation and backend projects, including designing and maintaining **n8n workflows** with robust error handling and monitoring. I built automated backend services using **NestJS**, integrating **Jira APIs and REST APIs** to streamline internal processes. I also developed automation pipelines to collect, evaluate, and report on **pending and resolved Jira tasks** on a weekly basis, enabling managers to track progress efficiently. In addition, I contributed to building a **lead-generation and customer-enhancement system** aimed at attracting customers and improving service acquisition and conversion.

From 01/25-04/25

Internship at Zero&One Company

During my internship at Zero & One, I gained practical experience in full-stack development and AWS cloud services. I built a football application with React, JavaScript, and CSS on the frontend, and Express.js/NestJS with TypeScript on the backend, using class-validator for input validation. The app integrated with a MySQL database and was deployed using Docker. I implemented two AWS deployment strategies: a serverless approach with Lambda, API Gateway, and RDS, and a containerized setup using ECR and ECS. I also worked with services like EC2, Cognito, and IAM, enhancing my skills in cloud architecture, backend engineering, and DevOps.

From 01/24-Present

Thesis: Developing an Editorial System for Arabic Text

Description: Developing a system that automatically creates back-of-the-book indexes for Arabic books. These indexes list important terms with their corresponding page numbers, helping readers quickly find key topics and better

From 09/22-09/24

Graduate Teaching Assistant – Java Programming & Database Management

Description: Served as a Graduate Teaching Assistant for Java Programming and Database Management courses, helping students with OOP, algorithms, data structures, lab instruction, exam prep, and homework correction.

From 05/21-09/21

Worked as an Intern for MED GAIMS company

Description: Worked with a team on programming a historical war game

Application using Unity and C# for “Msaylha” tower in Lebanon. This application will be used to let the touristic be more involved in the history of this tower.

EDUCATION

From 09/22-Present

American University of Beirut (AUB)

Beirut, Lebanon

Masters in electrical and computer engineering
Software Area with a Thesis on Natural Language
Processing for Arabic Language

From 09/18-06/22

American University of Beirut (AUB)

Beirut, Lebanon

Bachelor's in computer & communication engineering
Minor math, Minor economics
Summary courses taken: Design & Analysis
Algorithm, Software engineering, Financial Engineering
Communication System, Electronic Circuits, Programming,
Numerical Computing, Image Processing, Control System

CERTIFICATIONS

Completed at 03/25

Obtained AWS Certified Cloud Practitioner (CLF-C02)

Completed at 01/24

AWS Cloud Practitioner Essentials Course

Completed at 01/28

AWS Security Fundamentals (Second Edition)

Completed at 01/20

AWS Cloud Concepts: Core Services, Billing, Pricing, and Support

Completed at 01/21

AWS Cloud Concepts: Compute, Network, Storage, and Databases

PROJECTS

From 10/23–12/23 Developed an AI-Based Resume Screening System on AWS

Brief Description: Designed a serverless application that used AWS Lambda and Amazon Comprehend to extract and evaluate key information from resumes stored in S3. Leveraged natural language processing to automate candidate screening, enabling efficient and intelligent recruitment workflows.

From 01/24-04/24

**Developed a Deep Learning Applications in Channel Estimation,
Sensing and molecular ratios prediction**

Simulated a MIMO wireless communication system
or channel estimation and developed neural networks to predict
molecular ratios and classify molecular profiles for five

different molecules using deep learning techniques in MATLAB.

From 09/21-05/22

FYP: Developed an augmented reality application for METACS co.

Brief Description: Develop an Augmented Reality computer application that can be used as a tool by a teacher/user pair situated far apart from each other. Both users would open the same application on each of their phones (or tablets) and the teacher would direct the user on what to do on maintenance.

From 02/21-05/21

Developed a web app

Brief Description: Develop a Python-Django library website for user account creation, book rentals, orders, sales, and personalized workspaces.

From 03/19-05/19

Developed a Computer Networking Application

Brief Description: A GUI Java application was the user creates an account on a server to buy and sell products, like Ebay.

REFERENCES

Available upon request