

RAMZI HADDAD

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EDUCATION

Northeastern University

MS Computer Science *GPA: 4.0/4.0*

Boston, MA, USA

September 2021 - May 2023

American University of Beirut

BE Mechanical Engineering with distinction *GPA: 3.6/4.0*

Beirut, Lebanon

Sep 2016 - May 2020

WORK EXPERIENCE

LASE Innovation

Part Time Software Developer

Boston, MA

January 2023 - May 2023

- Spearheaded development of cloud infrastructure for storing and managing experiment data
- Built and launched an intuitive internal website with React.js to facilitate data analysis

Amazon Web Services

Software Developer Intern, AWS IoT RoboRunner

Boston, MA

June 2022 - August 2022

- Developed a data streaming service enabling customers to view robot data with low latency
- Produced a proof of concept feature to allow video streaming from robots in near real time

Khoury College of Computer Sciences, Northeastern University

Teaching Assistant for CS 5200: Database Management Systems

Boston, MA

January 2022 - May 2023

- Held office hours to help out students with key concepts and SQL/NoSQL assignments
- Graded weekly assignments for 20+ students

Murex

Software Developer Intern

Beirut, Lebanon

April 2021 - June 2021

- Enhanced front end features for internal financial platform for better user experience
- Developed an inventory REST service using Spring Boot with 15% performance improvement

HiveMate

Cofounder

Beirut, Lebanon

May 2020 - March 2021

- Productionized an intelligent device monitoring bee hives using artificial intelligence
- Secured 1st place and a \$20,000 investment from the AUB Accelerator Program

SKILLS

Programming Languages:	Java, C++, Python, JavaScript, HTML, CSS, MATLAB, D
Software:	LabVIEW, AutoCAD, SolidWorks, Altair HyperWorks, LaTeX
Libraries & Tools:	PyTorch, TensorFlow, pandas, NumPy, Matplotlib, OpenCV, Keras, Scikit-Learn, Django, Spring, Apache Maven
Topics:	OOP, IoT, AWS, REST API, Git, Convex Programming, CI/CD
Hardware:	Raspberry Pi, Arduino, ESP32
Languages:	English, Arabic, French

PROJECTS

GIF Search Engine

A GIF retrieval system utilizing relevance feedback via Rocchio's algorithm with a 92% MAP@15 score

Content Delivery Network

A CDN to fetch Wiki content with fast response times based on client's geographical location

Pac-Man AI

Applying search and RL techniques to the Pac-Man video game using Python

Spotify Clone

Utilized the MERN stack (MongoDB, Express.js, React, and Node.js) to develop a Spotify clone

Paint Application

Created a painting application in DLang, incorporating SDL for graphics and sockets for networking

Maze Game

An action maze chase game using the MVC pattern in Java

Sentiment Analysis Using Neural Networks

Offensive tweet detection in Arabic using RNNs and BERT

INTERESTS

Internet of Things, Machine Learning, Natural Language Processing, Software Development, Optimization, Control Theory, Data Analytics, Chess, Soccer