

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

Murex

Software Developer intern

Beirut, Lebanon

April 2021 - June 2021

- Enhanced front end features for internal financial platform for better user experience
- Created CI pipelines using Jenkins and automated feedback and ticketing
- Developed an inventory service through CRUD operations using Java Spring Boot with 15% performance improvement

HiveMate

Cofounder

Beirut, Lebanon

May 2020 - March 2021

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

Center for Collision Safety and Analysis, George Mason University

Research Intern

Fairfax, VA

June 2019 - Aug 2019

- Found and analyzed comparison metrics for short duration frontal crashes based on sensory data from NHTSA
- Helped in modeling a Volkswagen Passat for crash simulations

SKILLS

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

PROJECTS

Pac-Man AI

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

Maze Game

An action maze chase game using the MVC pattern in Java

Football Stats Site

Displaying football stats through a website using React.js frontend and Node.js backend and a SQL database on AWS RDS

Semantics in Deep Learning

Knowledge graph construction for reasoning in neural networks

IoT Communication with ESP32

Communication with ESP32 to upload photos to AWS S3

Stabilizing Quanser 3DOF Hover Quadcopter

Controlling quadcopter via LQR and adaptive controllers using MATLAB & Simulink

INTERESTS

Artificial intelligence, machine learning, NLP, software development, optimization, control theory, data analytics, chess, soccer, swimming