Ramzi Haddad

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EDUCATION

Northeastern University Boston,MA, USA
MS Computer Science *GPA: 4.0/4.0* September 2021 - May 2023

American University of Beirut Beirut, Lebanon
BE Mechanical Engineering with distinction *GPA: 3.6/4.0* Sep 2016 - May 2020

WORK EXPERIENCE

Amazon Web Services Boston, MA
Software Developer Intern, AWS IoT RoboRunner 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 Boston, MA
Teaching Assistant for CS 5200: Database Management Systems January 2022 - Present
- Held office hours to help out students with key concepts and SQL/NoSQL assignments
- Graded weekly assignments for 20+ students

Murex Beirut, Lebanon
Software Developer Intern 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 Beirut, Lebanon
Cofounder 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

Center for Collision Safety and Analysis, George Mason University Fairfax, VA
Research Intern June 2019 - Aug 2019
- Analyzed comparison metrics for short duration frontal crashes based on NHTSA sensory data
- 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:	OOP, IoT, AWS, REST API, Git, Convex Programming, CI/CD
Hardware:	Raspberry Pi, Arduino, ESP32
Operating Systems:	Linux, Windows
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

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

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, Swimming