

Keeyon Hajjafar

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EDUCATION

Northeastern University – Khoury College, Boston, MA

Sep 2023 – Dec 2025

MS in Computer Science, GPA: 3.9 / 4.0

Coursework: Foundations of AI, Discrete Structures & Systems, Database Management, Object-Oriented Design, Algorithms

Case Western Reserve University – College of Engineering, Cleveland, OH

Aug 2017 – May 2021

BS in Mechanical Engineering

Coursework: Introduction to Java, Statistics and using R, Computers in Mechanical Engineering, Controls Engineering

TECHNICAL KNOWLEDGE

Languages (Proficient): Python, Java, C, MATLAB, R, HTML, SQL, XML, CSS, JavaScript

Tools & Frameworks: OpenCV, Git, GitHub, PyTorch, PyGame, NumPy, Java Swing, React, SQLite, MySQL, JUnit, AprilTag, Node.js, Llama API, The News API, UML Design, ERD (Crow's Foot)

PROJECTS – [Code is available upon request or on portfolio.]

News Crossword Puzzle

Sept 2024 – Present

- A weekly generated crossword puzzle that creates a board and hints based on top headlines in the news.
- Using The News API to get top news articles, Llama API to select keywords and a unique algorithm to generate the crossword.
- The finished product will use React for the front end and Node.js and MongoDB for the backend. Ideally deployed on AWS.

Stock Market Predictor

Feb 2024 – May 2024

- Create trend predictions up to 44% accurate for the year using Markov Modeling and Reinforcement Learning.
- Model training with both Google Trends and Alpha Vantage API in Python to fetch daily market data for transfer learning.
- Focuses on fundamental data such as price movement, Price-to-Book ratio, Price-to-Earnings ratio, Capex.

Sales Transaction Database - Star Shema

July 2024

- Created databases in MySQL and SQLite to analyze data purchase data and representative sales.
- Used raw data from several XML files which contained a sum of over 25,000 data points to input in the databases.

EXPERIENCE

CodeAdvantage | Boston, Massachusetts

Aug 2024 – Present

Instructor

- Teaching after-school enrichment classes for children ages 7-13 how to code in languages like Python and work with robotics.

Northeastern University | Boston, Massachusetts

May 2024 – Present

Research Assistant at Transformative Robotics Lab

- Working with soft robotics to help develop a path planning system for a robotic arm and improve position accuracy by 97.5%.
- Using PyTorch, AprilTags, OpenCV, motion capture systems, and machine learning concepts to achieve this goal.

Northeastern University | Boston, Massachusetts

Jan 2024 – Present

Teaching Assistant for CS 5004 (Object-Oriented Design)

- Provide supplementary material and teaching recitations over Object-Oriented Programming concepts in Java.
- Manage grading, office hours, and 1-on-1 tutoring for all students in classes as large as 160 students.

Apple | Cambridge, Massachusetts

Oct 2023 – Jan 2024

FWE Specialist

- Lead seller to uncover customer's needs providing recommendations of the right equipment in each situation.
- Introduced about 75% of small businesses to Apple's business team to provide them a funnel to improve their businesses.

Stevanato Group | Boston, Massachusetts

Oct 2022 – Sep 2023

DDS/DCS Mechanical Scientist

- Executed experiments on drug delivery systems (DDS) while responsible for communication with clients.
- Migrated lab database to LIMS to decrease work up to 80% for qualifying machines with vendors to follow ISO standards.

TRANSFERABLE SKILLS

Engineering tools:

Certified SolidWorks Professional (CSWP), Lab Management Systems (LIMS), CAD and Vector Imaging Software

Soft Skills:

Strong Communication, Proactive Teammate, Fast Adaptability, Time Management, Leadership, Problem-solving,
Strong Work Ethic to Commitments