

# 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

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## 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, UML Design, ERD (Crow's Foot)

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

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

**Software Web App** | Amphi, Pre-series A Startup

Apr 2024 – May 2024

- Demo for healthcare budgeting system, to help reduce planning time of up to 2 years for governments and companies.
- Uses JavaScript with Google Sheets App Script for the back end and React for the front-end.
- Manage a team to follow deadlines and requests made by Amphi execute the project.

**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.

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## 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 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.