Keeyon Hajjafar

Seeking an Internship/CO-OP opportunity between January 2025 – September 2025
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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 & Skills

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

Tools: Git, GitHub, OpenCV, PyTorch, NumPy, React, MySQL, JUnit, AprilTag, UML Design, ERD (Crow's Foot), LaTeX
Engineering: Certified SolidWorks Professional (CSWP), Lab Management Systems (LIMS), CAD and Vector Software

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PROJECTS – [More details and Projects](#)

Clinical Trial Chatbot – <u>User friendly analysis tool</u>   Nov 2024 – Present
• Designed a python backend to provide analysis on clinical trial data from natural language.
• Implemented tools such as Clinical Trials API and AI to create a pipeline for querying data and then presenting data.
• End goal is to have an intuitive tool to access and understand the history of clinical trials.

News Crossword Puzzle – <u>A weekly generated crossword puzzle based on top news headlines</u>   Sept 2024 – Present
• Used JavaScript to design a flow to retrieve keywords and hints from top headlines in The News API and Gemini.
• Innovated on an algorithm to generate the crossword from a batch of keywords collected to present and play.
• Used React for the front end, Node.js and MongoDB for the backend, and will be deployed on AWS for 1000s to use.

Stock Market Predictor – <u>Multi-model single stock predictor in Python</u>   Feb 2024 – May 2024
• Created trend predictions of up to 44% accuracy for the year using Markov Modeling and Reinforcement Learning.
• Model training with both Google Trends and Alpha Vantage API to fetch daily market data for transfer learning.

Sales Transaction Database – <u>Star Shema</u>   July 2024
• Created databases in MySQL and SQLite to analyze data purchase data and representative sales.
• Used raw data from several XML and csv 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 coding and robotics programs to children ages 7-13 helping to develop students problem-solving skills.

Northeastern University | Boston, Massachusetts   May 2024 – Present
Research Assistant at Transformative Robotics Lab
• Researching path planning and positioning in robots using machine learning Python tools, motion capture and Matlab.
• Working with soft robotics to help develop a machine learning path planning system for a robotic arm with tools like PyTorch.
• Using AprilTags, OpenCV and motion capture systems to improve positional accuracy by 97.5%.

Northeastern University | Boston, Massachusetts   Jan 2024 – Present
Teaching Assistant for CS 5004 (Object-Oriented Design)
• Providing 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.

Stevanato Group | Boston, Massachusetts   Oct 2022 – Sep 2023
DDS/DCS Mechanical Scientist
• Executed experiments on drug delivery systems with effective planning 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.