

EXPERIENCE

Arrow Street Capital Jan 2023 - Present
Quantitative Developer Boston, MA

- Developing software that supports the investment research production process

Meta Sep 2022 - Nov 2022
Software Engineer Boston, MA

- Contributed to 5+ full-stack projects that improved internal workflows and user experiences.
- Designed and implemented a user interface for an ML document-processing service as a Hackathon project.

Muninn Summer 2022
Cybersecurity Intern Copenhagen, Denmark

- Wrote scripts to analyze network traffic, detect malicious behavior, and alert users of potential threats.
- Developed metrics to improve the fit of an anomaly detection model while maintaining generalizability.

Facebook Summer 2021
Software Engineering Intern Menlo Park, CA

- Integrated a tagging feature into an internal tool for curating and uploading news content.
- Designed full-stack software feature specifications while working with team members and cross-functional stakeholders.

MathWorks Summer 2020
Engineering Development Group Intern Remote

- Developed full-stack customer-facing web applications; pushed code to production for over 1,000 users per day.
- Drafted thorough documentation for testing plans, requirements, use cases, and functional/architectural design.

Universidad Politécnica de Madrid Summer 2019
Data Science Research Assistant Madrid, Spain

- Constructed models around cleaned datasets; compared effectiveness and accuracy of each model.
- Evaluated correlational coefficients between properties such as connectivity, transitivity, and reciprocity.

SKILLS

Languages: Python, Java, PHP, C++, JavaScript, MATLAB, Julia, R, Stata

Frameworks: React, Vue, Node, Express, Flask, MySQL, MongoDB, TensorFlow, Keras, Scikit Learn, Pytorch

Tools: Git, Docker, Kubernetes, Visual Studio Code, Eclipse, IntelliJ

PROJECTS

Interface for ML Interpretability | *React, NLPaug, TensorFlow, sklearn, keras* Sep 2021 – May 2022

- Created a user interface for users to build NLP models, define training and test sets, and visualize the results.

Stance | *Vue, Express, Node* Nov 2021 – Dec 2021

- Developed a web application for political candidates to communicate with voters about relevant issues.

Interlock for Self-Driving Cars | *Python, numpy, open3d, skimage, ffmpeg, CARLA* Sep 2020 – May 2021

- Devised a path prediction algorithm to determine if an autonomous vehicle will collide with any objects in its path.

G Suite Dashboard | *JavaScript, Google AppScript* Jan 2021

- Consulted with a local educational non-profit to identify their needs and design and deploy an effective solution.
- Built an application to automate reminder emails, reducing the time needed by volunteers by 95%.

Tempo | *C++, Python, SQLite, Arduino* Mar 2020 – May 2020

- Created a fitness device that plays a song to a user's device based on their running speed and music preferences.
- Implemented the back end to read step frequency and make HTTP requests to Spotify's REST API.

Artificial Synapses for Neuromorphic Arrays | *MATLAB, Python, TensorFlow* Feb 2019 – May 2019

- Developed a neural network to predict and extend machine lifetime.

LEADERSHIP

MIT Women's Varsity Volleyball Aug 2018 – Nov 2021
CoSIDA Academic All-America, AVCA All-America, NEWMAC Conference Tournament MVP

VP of New Member Education for Phi Sigma Rho Sorority Feb 2021 – Apr 2022
Scheduled and led new member education sessions for sorority candidates

Tutor for HKN Honor Society Sep 2020 – May 2021
Tutored students in 6.034 (AI), 6.036 (ML), 6.046 (Algorithms), and 6.0001 (Intro to CS in Python)

MIT Committee on Curricula Sep 2020 – May 2021
Discussed and voted on proposals to create or revise undergraduate subjects and programs

MIT IEEE Exec Board Officer Sep 2019 – May 2021
Faculty-Student Chair: Coordinated an undergrad research symposium and social events between faculty and students
Secretary: Took organized minutes at all meetings, followed up on relevant action items, assisted with managing budget

EDUCATION

Massachusetts Institute of Technology Cambridge, MA
B.Sc., Double major in Computer Science and Mathematical Economics, GPA: 4.8 / 5.0 Graduated 2022