

Sammy Kao

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Personal Website: <https://sammykao.github.io>

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EDUCATION

Tufts University

Bachelor of Science, Major in Computer Science, Minor in Finance

GPA: 3.96/4.0

Honors: Dean's List

Relevant Coursework: Introduction to Finance, Introduction to Computer Science, Data Structures, Principles of Economics, Web Programming, Discrete Mathematics, Calculus II

Online Courses and Certificates

- University of Michigan - Python for Everybody Specialization
 - Introduction to Python course, Data Structures course: Certificate of Merit
 - Using Python to Access Web Data course: Certificate of Merit
 - DBA-AI API course: Certificate of Merit
 - Capstone project: Retrieving, Processing, and Visualizing Data with Python
- DeepLearning.AI – Machine Learning Specialization
 - Supervised Machine Learning: Regression and Classification: Certificate of Merit
 - Advanced Learning Algorithms course: Certificate of Merit
 - Unsupervised Learning, Recommenders, Reinforcement Learning course: Certificate of Merit
- Stone Rivers eLearning – Fundamentals of HTML and CSS

Medford, MA

Expected May 2026

Remote Work

June 2021 – May 2023

PROJECTS

Project portfolio can be found at <https://sammykao.github.io/projects> or at <https://github.com/sammykao>

WORK AND EXTRACURRICULAR EXPERIENCE

Epoxy.AI

Research Intern

Philadelphia, PA

May 2023-August 2023

- Conducted research and wrote intracompany documentation for implementing a ML Churn Modeling system w/ Sagemaker for iGamin
- Conducted research into clustering techniques for iGaming users based on US wide gambling regulations and available telemetric data
- Wrote scraping scripts in Python to optimize data collection and marketing efforts with the companies CRM system

Tufts Human Factors Lab

Researcher

Medford, MA

January 2023-Present

- Machine Learning and Data Analytics researcher for VR Face Evolution project that was implemented to query a user to select a desired face choice until the face chosen was the desired output.
- Conducted research into convergence algorithms and unsupervised learning algorithms, contributed to the build of the machine learning model.

Future For Her Non-Profit

Director of Operations

Philadelphia, PA

February 2022 – December 2022

- Designed and constructed the nonprofit's website, weekly planning outlines, lesson plans, and teaching templates for all workshops and summer camps.
- Forged long-term partnerships with the Philadelphia School District, Lower Merion Library System, TechGirlz, and Bryn Mar College, for weekly workshops and summer camps.
- Awarded \$10,000 Aerie Foundation Grant and \$5,000 American Eagle Foundation Grant

Tufts Investment Club

Researcher

Medford, MA

January 2023-Present

- Conducted research on options contracts and capitalizing on implied volatility.
- Wrote a research paper on trading strategies derived off Theta Decay, building a machine learning model to analyze and derive trading strategies based off statistical Theta Decay

SKILLS AND INTERESTS

Programming Languages: C++, Python, Java, MySQL, HTML, CSS, Javascript,

Software Skills and Tools: Google App Engine, AWS, Flask, Django, Tensorflow, PyTorch, VSCode, Google Suite, Microsoft Office Suite, Selenium, BeautifulSoup, Snsrape, Jinja, SQLite, APIs, Bootstrap

Interests: Tufts University Varsity Men's Soccer Player, Cooking, Artificial Intelligence, Traveling, Real Estate, Sustainable Options Strategies