Sammy Kao

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EDUCATION

Tufts University	**Medford, MA**

Bachelor of Science, Major in Computer Science, Minor in Finance, Minor in Entrepreneurship — *Expected May 2026*

GPA: 3.96/4.0

Honors: Dean's List

Relevant Coursework: Introduction to Finance, Introduction to Computer Science, Data Structures, Web Programming, Discrete Mathematics, Calculus II, Machine Structure and Assembly Programming languages, Artificial Intelligence, Linear Algebra, Entrepreneurship for Computer Science

Certifications	**Remote**

- DeepLearning.AI - Machine Learning Specialization, Unsupervised Learning Specialization
- University of Michigan - Python for Everybody Specialization
- JP Morgan – Software Engineering Simulation Forage
- Scrimba – Learn React

PROJECTS

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

Visual Hippo	**Visualeat.com**

Most Recent

- AI Powered tool to find nearby restaurants based on a picture of uploaded food. Ranks and displays restaurants by the restaurant's food image similarity.
- Backend built with Python and Flask framework. Hosted on AWS using Ubuntu EC2 Instance. Uses pre-trained Salesforce Blip model for image recognition and Vgg16 model for cosine similarity analysis. Uses bs4 for restaurant photo scraping and Scraping Bee API to bypass IP blocking.

WORK AND EXTRACURRICULUR EXPERIENCE

Epoxy.AI	**Berwyn, PA**
Intern	*May 2023-October 2023*

- Conducted research and wrote intracompany documentation for ML Churn Modeling w/ AWS Sagemaker for iGaming. Conducted research into clustering techniques for iGaming users based on US wide gambling regulations with available telemetric data. Wrote scraping scripts in Python to optimize data collection.
- Created/engineered CRM database and marketing tech pipeline. Led to over a $10,000 monthly increase in revenue.

Flowpa.co	**Philadelphia, PA**
Co-Founder	*June 2023-September 2023*

- Partnered with Philmont FC soccer club to implement an AI Chatbot solution (using OpenAI and FAISS vector database) and page translation widget for their website. Partnered with Forward Progress Injury Care to build and host their website, as well as run online marketing for the PT clinic starting in 2024.

Tufts Human Factors Lab	**Medford, MA**
Researcher	*March 2023-June 2023*

- 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.

Tufts Investment Club	**Medford, MA**
Researcher	*January 2023-Present*

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

SKILLS AND INTERESTS

Programming Languages: C++, Python, HTML, CSS, JavaScript, PHP, SQL

Software Tech & Frameworks: Node.Js, ReactJs, MongoDB, Google App Engine, AWS, Heroku, Flask, Django, TensorFlow, PyTorch, Selenium, Beautiful Soup, Snscrape,, Bootstrap, Langchain, FAISS,

Interests: *Tufts University Varsity Men's Soccer Player*, Sports Betting, Real Estate, Cooking, Philadelphia Sports