

# MING FONG

✉ [mingfong@berkeley.edu](mailto:mingfong@berkeley.edu)

in [linkedin.com/in/mingfong](https://www.linkedin.com/in/mingfong)

github.com/evilpegasus

## EDUCATION

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**University of California, Berkeley**

*Bachelor of Arts, Physics and Computer Science*

June 2020 – May 2023

*Berkeley, CA*

**Cumulative GPA:** 4.0

**Coursework:** Intro to Computer Science, Multivariable Calculus, Programming in R, Quantitative Finance

**Activities:** Student Association for Applied Statistics (SAAS), Society of Physics Students (SPS)

## EXPERIENCE

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**Lawrence Berkeley National Laboratory**

*Undergraduate Researcher*

January 2021 – Present

*Berkeley, CA*

Deep learning for pion identification and energy calibration with the ATLAS detector at CERN

Researching neural networks for classification of pions with 5+ times better background rejection than hand-tuned models

**AI Dynamics, Inc.**

*Software Engineering Intern*

August 2020 – January 2021

*Bellevue, WA*

Developed a Python framework to deploy model-building software to AWS EC2 using the Boto3 API

Saved hours per iteration by automating the entire testing pipeline for the NeoPulse API on AWS Instances

Worked in a small team with a high degree of autonomy

**Microsoft Corporation**

*Software Engineering Intern*

June 2019 – August 2019

*Redmond, WA*

Developed an internal tool for the Windows team with 50+ users using C# and XAML

Collected and analyzed user sentiment and application usage data to eliminate potential biases

Maintained SQL database tables with relevant queries and REST APIs

Used agile methodologies (scrum) with a small team to coordinate workflow and iterative development

## PROJECTS

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**Real Estate Price Prediction**

December 2020

1st place solution for the Fall 2020 Berkeley SAAS CX Kaggle Competition

Predicted 2017 NYC real estate sale prices using a Keras neural network in Python, scoring a RMSE of 3340572

**Google Trends Financial Modeling**

December 2020

Used Google Trends data to predict NASDAQ price movements, earning 42% returns per annum in test data

Implemented EDA, feature engineering, modeling, and backtesting in Python with Pandas, Scikit-learn, NumPy

**Two Sigma Halite AI Programming Challenge**

June 2020 – September 2020

Bronze Medal: Ranked in the top 6% of 1138 submissions on the global leaderboard

Implemented creative algorithmic policies in a Python AI to compete in the Halite IV simulation environment

**Yearbook 2020**

June 2020 – July 2020

Developed a web app for 250+ students and graduates to virtually sign yearbooks during the quarantine

Implemented an HTML/CSS/JavaScript client and a Google Firebase backend for image processing and storage

## SKILLS

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**Software Languages**

Python, R, Java, C#, SQL, HTML/CSS/JavaScript, LaTeX

**Tools**

Jupyter Notebook, Linux, Windows, VS Code, Git

**Languages**

English, Mandarin, Cantonese, German

**Interests**

Table Tennis, Tennis, Cycling, Wushu and Lion Dance