MING FONG

mingfong@berkeley.edu
linkedin.com/in/mingfong
github.com/evilpegasus

EDUCATION

University of California, Berkeley June 2020 – May 2023
Bachelor of Arts, Physics and Computer Science *Berkeley, CA*

Cumulative GPA: 4.0
Coursework: Structure and Interpretation of Computer Programs, Multivariable Calculus, Programming in R, Algorithms, Quantitative Finance
Activities: Student Association for Applied Statistics (SAAS), Traders at Berkeley, Capital Investments at Berkeley

EXPERIENCE

Lawrence Berkeley National Laboratory January 2021 – Present
Undergraduate Researcher *Berkeley, CA*

Implemented deep learning techniques for pion identification problems with the ATLAS detector at CERN
Researched models for classification of pions with 5+ times better background rejection than hand-tuned models

AI Dynamics Inc. August 2020 – January 2021
Software Engineering Intern *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 June 2019 – August 2019
Software Engineering Intern *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
Set up backend SQL database tables with relevant queries and REST APIs
Used agile methodologies (scrum) with a small team to coordinate workflow and iterative development

PROJECTS

Berkeley SAAS Fall 2020 Kaggle Competition 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

Software Languages	Python, R, Java, C#, SQL, HTML/CSS/JavaScript, LaTeX
Tools	Jupyter Notebook, Linux, Windows, VS Code, Git
Interests	Table Tennis, Tennis, Cycling, Wushu and Lion Dance