

MING FONG

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EDUCATION

University of California, Berkeley

Bachelor of Arts, Physics and Computer Science

June 2020 – May 2023

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

EXPERIENCE

Lawrence Berkeley National Laboratory

Undergraduate Researcher

January 2021 – Present

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.

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

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

Languages

English, Mandarin, Cantonese, German

Interests

Table Tennis, Tennis, Cycling, Wushu and Lion Dance