MING FONG

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EDUCATION

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

Lawrence Berkeley National Laboratory — January 2021 – Present
Undergraduate Researcher — *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. — 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
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