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: Structure and Interpretation of Computer Programs, Multivariable Calculus, Programming in R, Algorithms, Quantitative Finance
Activities: Student Association for Applied Statistics, Traders at Berkeley, Capital Investments at Berkeley

EXPERIENCE

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

Researched deep learning techniques for pion identification problems with the ATLAS detector at CERN
Implemented models for classification of pions with 5x 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 5+ 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 desktop application for the Windows team with 50+ users using C# and XAML
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

Citadel West Coast Regional Datathon

Modeled the effect of non-pharmaceutical interventions on COVID-19 reproduction rates in 31 European countries

Berkeley SAAS Kaggle Competition

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

Used Google Trends data to predict NASDAQ price movements, earning 42% returns per annum in backtesting
Implemented EDA, feature engineering, modeling, and backtesting in Python with Pandas, Scikit-learn, NumPy

Two Sigma Halite AI Programming Challenge

Bronze Medal: Ranked in the top 6% of 1138 submissions on the global leaderboard
Implemented creative algorithmic policies in a Python agent to compete in the Halite IV simulation environment

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