MING FONG

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EDUCATION

University of California, Berkeley June 2020 – May 2024
Bachelor of Arts, Physics and Computer Science *Berkeley, CA*
Cumulative GPA: 3.812
Coursework: Machine Learning, Neural Networks, Discrete Math, Probability, Linear Algebra, Data Structures
Activities: Traders at Berkeley, Student Association for Applied Statistics (SAAS), Capital Investments at Berkeley

EXPERIENCE

DeepMind Technologies Ltd. Fall 2022
Core Research Engineering Intern *London, UK*
Graph representation learning for algorithmic reasoning

Two Sigma Investments, LP May 2022 - August 2022
Quantitative Research Intern *New York City, NY*
Alpha research for equities using alternative data
Large scale data analysis and linear modeling with Python and distributed time series compute with Groovy

Lawrence Berkeley National Laboratory January 2021 – Present
Machine Learning Researcher *Berkeley, CA*
Point Cloud Deep Learning Methods for Pion Reconstruction in the ATLAS Experiment (ATL-PHYS-PUB-2022-040)
Applied graph neural networks and data engineering to high dimensional data particle collision data
Advisor: Benjamin Nachman

Voloridge Investment Management, LLC May 2021 – August 2021
Quantitative Research Intern *Jupiter, FL*
Portfolio holdings inference of non-transparent funds using statistical and machine learning methods
Reduced dimensionality of securities universe tenfold using correlations, regressions, and feature selection techniques
Applied portfolio constraints via modified LASSO and Ridge regressions in a convex optimization problem

AI Dynamics Inc. August 2020 – January 2021
Software Engineering Intern *Bellevue, WA*
Developed a Python framework to deploy proprietary data modeling software to AWS EC2 using the Boto3 API
Saved 8+ hours per build iteration by automating the entire testing pipeline for the NeoPulse API on AWS Instances

Microsoft Corporation June 2019 – August 2019
Software Engineering Intern *Redmond, WA*
Developed internal desktop applications for the Windows Data Science team with 50+ users using C# and XAML
Designed and maintained backend SQL database tables and implemented queries and REST API endpoints

PROJECTS

Kaggle Data Science Competitions Expert
Kaggle data science Competitions Expert with a peak rank of 2019
Halite Two Sigma AI Programming Competition: Bronze Medal, Kore 2022: Bronze Medal

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

Berkeley SAAS Data Science Consulting
Orbital Insight - Missing object interpolation for cloudy satalite imagery using geospatial and time-series techniques
ProducePay - Feature importance analysis and predictions for terminal and shipping price quotes of produce

Citadel West Coast Regional Datathon
Quantified the effectiveness of government interventions on COVID-19 rates in Europe

SKILLS

Software Languages	Python, R, Java, C#, SQL, HTML/CSS/JavaScript
Tools	NumPy, Pandas, Scipy, Sklearn, Jupyter, Linux, Windows, VS Code, Git
Interests	Table Tennis, Tennis, Cycling, Badminton