MING FONG

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EDUCATION

University of California, Berkeley June 2020 - May 2024
Bachelor of Arts, Physics and Computer Science (EECS Honors) *Berkeley, CA*
Cumulative GPA: 3.76
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

Balyasny Asset Management LP May 2023 - August 2023
Quantitative Research Intern *New York City, NY*
Equities alternative data for modeling GPU and technology component utilization effects on company fundamentals
Built modeling and data pipelines for portfolio management and quantamental trading strategies into production

Google DeepMind September 2022 - December 2022
Core Research Engineering Intern *London, UK*
Scaling and GPU/TPU data parallelization on graph representation learning models for algorithmic reasoning in JAX
Proposed, implemented, and evaluated novel methods for transfer learning on pre-trained graph neural networks

Two Sigma Investments LP May 2022 - August 2022
Quantitative Research Intern *New York City, NY*
Alpha research for equities using proprietary alternative data focused on consumer signals and company similarity
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 from CERN

Voloridge Investment Management 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 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

ACTIVITIES

Kaggle Data Science Competitions Expert
Kaggle data science Competitions Expert with a peak global rank of 1144 (top 0.5%)
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 and developed a simple trading strategy
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

SKILLS

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