

MING FONG

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 github.com/evilpegasus

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. (Google)

September 2022 - December 2022

Core Research Engineering Intern

London, UK

Scaling and GPU data parallelization with graph representation learning models for algorithmic reasoning in JAX

Proposed, implemented, and evaluated new methods for transfer learning on pre-trained graph neural networks

Advisors: Borja Ibarz and Petar Veličković

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 relationships

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

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 1779 (top 1%)

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 satellite 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, JAX, Jupyter, Linux, Windows, VS Code, Git

Interests

Table Tennis, Tennis, Cycling, Badminton