

# Jackson Walker

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## EDUCATION

### University of California, Berkeley - Haas School of Business (GPA: 3.91/4.00)

Expected Mar 2024

#### Master of Financial Engineering

Berkeley, CA

- Top 5% Academic Performance, Vice President of Financial Engineering Student Association (FESA)
- Coursework: Financial Data Science (A), Deep Learning and Applications I (A) & II (A), Empirical Methods (A), Investments & Derivatives (A), Fixed Income Markets (A), Financial Risk Measurement and Management (A)

### University of California, Santa Barbara (GPA: 3.79/4.00)

Jun 2019

#### Financial Mathematics and Statistics

Santa Barbara, CA

- Upper Division GPA: 3.90/4.00, High Honors, Regents Scholar
- Coursework: Statistical Machine Learning (A+), Advanced Numerical Analysis (A+), Linear Algebra (A), Statistics (A)

## SKILLS & CERTIFICATIONS

Certifications: Math [& Statistics] for Financial Engineers (Berkeley), Python (Berkeley), Machine Learning (Coursera, UW), Financial Markets (Coursera, Yale), Accelerated Computer Science Fundamentals (Coursera, UIUC)

Programming: Python (pandas, numpy, scikit-learn, tf, scrapy, pyspark), SQL (GoogleSQL, T-SQL), C++, R, JavaScript/Web

## INDUSTRY PROJECTS & RESEARCH

### Fabric (Fintech)

Berkeley, CA

#### Industry Project - AI Portfolio Chatbot

Jul 2023 - Sep 2023

- Prototyped a financial AI assistant chatbot agent to help Portfolio Managers using GPT, LangChain, and Llama-index

### Bank of America

Berkeley, CA

#### Research Project - Regime Detection - [Click here for dashboard](#)

Apr 2023 - Jul 2023

- Reviewed literature about financial regime detection using Hidden Markov models, clustering, and other methods
- Implemented and compared regime detection methods applied to asset allocation strategies for meta-analysis

### Silver Lake (Private Equity)

Berkeley, CA

#### Industry Project - Competition Knowledge Graph

Mar 2023 - May 2023

- Constructed a Neo4J graph of 1000+ business entities such as companies, products, features, and categories
- Authored python package to generate investment insights with data science algorithms applied to graph data

## PROFESSIONAL EXPERIENCE

### Moody's Analytics

San Francisco, CA

#### Data Science Team - Fall Internship

Oct 2023 - Jan 2024

- Developing an AI-driven smart assistant that streamlines and enhances user interaction with internal tools
- Leveraging generative AI technology to further automate the regulatory reporting process for large bank clients

### National Funding (SMB Financing)

San Diego, CA

#### Data Scientist II

Sep 2022 - Mar 2023

#### Data Scientist I

Feb 2022 - Sept 2022

- Improved probabilistic marketing lead ranking alongside other Data Scientists to lift response and submission rates
- Positioned \$10+ million of annual marketing spend between 35+ million potential leads on a monthly basis
- Modernized large batch automated processes with python, SQL, and AWS cloud tools to speed up delivery time 2x
- Analyzed and revamped credit models based on consumer credit reports used to rate 1,000+ daily lending deals
- Updated legacy R credit models and API to a more robust, forward compatible, python and cloud implementation
- Promoted quickly from entry to mid level to match level of experience, technical ability, and results achieved

### Webster Pacific (Management and Data Consulting)

San Francisco, CA

#### Data Manager

Aug 2021 - Feb 2022

- Managed a team of 3 technical analysts to collaboratively iterate and deliver client projects
- Created business insights for clients with interactive, visual, predictive models using Tableau or custom web apps
- Designed highly customized products to fit client needs often with a geographic (GIS) data emphasis
- Expanded in-house product line by 2x by introducing new technical tools such as Python, SQL, cloud, etc.

#### Associate Consultant

Jul 2019 - Aug 2021

- Scraped 100+ modern websites and orchestrated automated crawling for location and time series analysis
- Developed methodology and code base to analyze patterns of anonymized mobile data used for 10+ client projects
- Wrote data manipulation and mapping software packages to generate custom web apps for client deliverables

**INTERESTS** Running, Weight Training, Rock Climbing, Pen Plotting, Generative Art

See my website, [jwalk.io](http://jwalk.io)