Jackson Walker

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EDUCATION

University of California, Berkeley - Haas School of Business (GPA: 3.91/4.00)   **Expected March 2024**
Master of Financial Engineering   *Berkeley, CA*
- Top 5% Academic Performance, Vice President of Financial Engineering Student Association (FESA)
- *Coursework:* Empirical Methods (A), Investments & Derivatives (A), Fixed Income Markets (A), Financial Data Science (A)

University of California, Santa Barbara (GPA: 3.79/4.00)   **June 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), Probability and Statistics (A), Micro/Macro Economics, Big Data Analytics (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   *July 2023 - Ongoing*
- Prototyping an interactive, finance-aware LLM agent using OpenAI's GPT and LangChain to answer client questions

Bank of America   **Berkeley, CA**
Research Project - Regime Detection - Click here for dashboard   *April 2023 - July 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   *March 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   *Starting October 2023*
- Developing an AI-driven smart assistant that streamlines and enhances user interaction with the CreditLens Monitor
- Leveraging NLP/LLM tech to automate the generation of credit memos, improving efficiency and accuracy
- Utilizing advanced data analytics and AI techniques to uncover valuable insights from credit data

National Funding (SMB Financing)   **San Diego, CA**
Data Scientist II   *September 2022 - March 2023*
Data Scientist I   *February 2022 - September 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 an 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   *August 2021 - February 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   *July 2019 - August 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