
Jonathan Hofmann

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

EDUCATION

University of California, San Diego, Extended Studies, San Diego, CA
Certification Program in Machine Learning Engineering

March 2023 - November 2023

San Diego State University, College of Arts & Letters, San Diego, CA
Bachelor of Arts, Economics

January 2018 - December 2022

Programming Competencies: Python, Tensor Flow, SQL (MySQL, Postgre), Apache Spark, Django, React, Streamlit, JavaScript, Flask, Power BI, Dash, Tableau, AWS, Azure, Git

Key Certifications:

- AZ-900: Microsoft Azure Fundamentals
- CLF-CO2: AWS Certified Cloud Practitioner

RELEVANT EXPERIENCE

Feather Data Management, San Diego, CA, *Co-Founder / Machine Learning Research Engineer*

March 2023 - Present

- Designed and implemented a robust web application using Django and React, enabling users to seamlessly scan business documents, extract pertinent text, process the data, and generate an insightful cloud-deployed dashboard featuring forecasted values.
- Transitioned businesses from manual paper-based tracking to streamlined digital data management, improving efficiency.
- Delivered technical summaries and live demonstrations to business owners, driving engagement and collaboration on AI-driven reporting solutions.

Pacific Beach Shore Club, San Diego, CA, *Business Analytics*

August 2022 - Present

- Spearheaded a new data management system to track inventory and reorder needs of a multi-million-dollar business.
- Utilized Excel techniques for the creation of a data synthesis vehicle while incorporating Python, Pandas, Dash, and SQL for data analysis, visualization, and creation of a cloud-deployed dashboard with data analytics for senior management.
- Compiled a 30-page technical report displaying the cost benefit of the new inventory mechanism, in comparison to the prior system, regarding anomaly detection, error-handling, and function accuracy.
- Improved in-house inventory tracking by 18% when compared to the previous system.

KEY PROJECTS

AI Personal Trainer

August 2023

- Developed and deployed an innovative AI personal trainer leveraging deep learning technology to detect and assess squat exercises through the users webcam.
- The system provides real-time feedback and form critiques, enhancing user training experiences. Demonstrated a strong grasp of computer vision, machine learning, and AI to create a cutting-edge fitness application.

Asset Management Optimizer

April 2023

- Designed and developed a sophisticated Python-based quantitative portfolio optimization program, combining statistical analysis and mathematical modeling techniques.
- Constructed a user-friendly interface that allows users to customize the program to their goals and risk tolerance.

STUDENT LEADERSHIP EXPERIENCE

Theta Chi Fraternity, San Diego, CA, *VP of Philanthropy and External Relations*

Aug. 2019-May 2020

- Organized philanthropy events for hundreds of students to participate in including a yearly trip to Tijuana, Mexico to build a home for a homeless family in need. Other events included: beach cleanups, blood drives, and food drives.
- Raised more than \$23,000 for various causes in the San Diego area including animal shelters and the Red Cross.

NON-TECHNICAL EXPERIENCE / ACCOMPLISHMENTS

Pacific Beach Shore Club, San Diego, CA, *Bartender, Shift Lead Barback*

Aug 2020 - Sep 2023

- Led a team of 12 in one of San Diego's busiest night clubs, perfecting teamwork and working under pressure.
- promoted 5 times in 3 years from dishwasher to Bartender and shift lead Barback.

TCS NYC Marathon, New York City, NY

Nov 5 2023

- Completed the NYC Marathon, raising \$2,650 for Team For Kids to support local youth and community programs.

