

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, PyTorch, 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

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 dashboarding data analytics for senior management.
- Improved in-house inventory tracking by 18% when compared to the previous system.

Independent Research, San Diego, CA, *Data Science & Engineering Lead*

April 2023 - Present

- **Bioinformatic Research** - I contributed to a multidisciplinary research initiative, collaborating with a team of nine professionals, including doctors, medical students, and engineers. Our project focused on leveraging machine learning to predict postoperative complications. Additionally, we evaluated the efficacy of deep learning algorithms in the segmentation of CT images, aiming to enhance the accuracy and reliability of diagnostic processes. My role was to lead the engineering.
- **Feather** - Developed an open-source research initiative designed to revolutionize data and inventory management in the service industry by transitioning from traditional paper-based tracking to a digital system. Utilizing optical character recognition (OCR) technology, Feather enables conversion of paper documents into comprehensive Excel workbook outputs.

KEY PROJECTS

Automated Stock Market Machine Learning

August 2023

- Implemented functionality for users to select specific stocks and time periods for analysis.
- Utilized PyCaret's time series analysis to automatically identify the most accurate predictive algorithm for the selected data.
- Integrated data visualization features to display critical stock metrics, including opening prices and trading volumes, facilitating a deeper understanding of market trends.

PDF Text Extractor

April 2023

- Engineered a web-based platform enabling users to extract text from PDF documents.
- Integrated advanced OCR (Optical Character Recognition) technology to convert scanned documents into editable text.
- Provided a user-friendly interface for uploading PDFs and receiving instant text conversion results.

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* supporting local youth and community programs.

