

Aaron Rodrigues

aaronjrod99@gmail.com | aaronjrod.github.io/ | linkedin.com/in/aaron-rod/

Professional Summary

Data Scientist with 3+ years of experience in machine learning, AI, and data analysis. Demonstrated expertise in developing scalable enterprise solutions and delivering actionable, data-driven insights. 1 first author publication.

Skills

- Machine Learning (PyTorch, Spark, sklearn, SageMaker)
- Software Development (Python, Git, bash; 8+ yrs.)
- Data Analysis & Visualization (SQL, R, pandas, Snowflake, Athena, SAS, Tableau, Excel, MATLAB, Photoshop)
- Communication, collaboration, leadership, mentorship, time management, group organization, presentation skills

Work Experience

JPMorganChase

Sept. 2023 - Present

Data Science Analyst, Focused Analytics Solutions Team (FAST)

Dallas, TX

- Provided internal data science consulting for various lines of business in Consumer and Community Banking.
 - Learned advanced project and stakeholder management skills in a collaborative, fast-paced rotational program.
- *Business Modeling*: Developed predictive machine learning models for recommending Chase for Business products, achieving strong performance (ROC AUCs of 74%+ for predicting Checking, Credit Card, and Loan acquisition).
 - Presented findings to senior management and prepared Model Risk Governance and Review documentation.
- *Connected Commerce*: Designed a streamlined customer segmentation model by using decision trees and business insights, creating 5 distinct customer profiles based on account engagement to enhance digital payment analysis.
- Leveraged Spark, SQL, XGBoost, PyTorch, and Snowflake to build machine learning models and data products.

Rockwell Automation

May 2022 - Sept. 2022

Software Development Intern, RAU Team

Cleveland, OH

- Developed a full-stack web application that streamlines grading efficiency for internal employee training programs.
- Leveraged Python, Flask, HTML, MongoDB, Docker, and Git to successfully prepare a minimum viable product.

Projects and Publications

Neural Data Analysis Pipeline

Sept. 2020 - Apr. 2024

Research Assistant, Neural Engineering Center at Case Western Reserve University

Cleveland, OH

- Built a scalable pipeline for processing 6TB+ of time-series neural recordings using High Performance Computing.
- *First author publication* using analysis on 700+ hours of direct nerve recordings: "Effect of anesthesia and circadian rhythms on chronic vagus nerve activity in rats" (Rodrigues et al., in submission).

Automated Cell Culture Image Analysis

Dec. 2018 - Aug. 2020

Research Assistant, Northwestern University Feinberg School of Medicine

Chicago, IL

- Applied computer vision programs for image segmentation, reducing data analysis timelines from days to minutes.
- *First author publication*: "Nucleoli and the nucleoli-centromere association are dynamic during normal development and in cancer" (Rodrigues et al., 2023, doi: 10.1091/mbc.E22-06-0237).

Generative AI Tool for Project Planning & Management

Jan. 2023 - May 2023

- Developed a project management web app that breaks down complex project ideas into structured, manageable tasks with an interactive tree-based visualization (team of 7). Used GPT 3.5, MongoDB, Express, React.js, and Node.js.

Education and Certifications

Georgia Institute of Technology

Part-time; Expected Graduation 2026

Master's in Computer Science

Atlanta, GA

Case Western Reserve University

Aug. 2020 - May 2023

Bachelor's in Biomedical Engineering and Computer Science

Cleveland, OH

- Cumulative GPA: 4.0/4.0; *summa cum laude*
- Relevant Coursework: Machine Learning, Intro to AI, Algorithms, Data Structures, Data Analysis, Statistics

AWS Certified Machine Learning - Specialty

Dec. 2023

AWS Certified Cloud Practitioner

July 2022