Connor O'Neill

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Computer Science and Statistics & Data Science double major with hands-on experience in machine learning, data analysis, and full-stack web development. Experienced building predictive models, REST APIs, and data driven applications using Python, SQL, JavaScript, and React.

EDUCATION

University of Arizona   Graduating May 2026
B.S. Computer Science   3.7/4.0 (Dean's List)
B.S. Statistics and Data Science

Relevant Coursework: Machine Learning, Statistical Machine Learning, Database Design & Implementation, Probability & Mathematical Statistics, Data Structures & Algorithms, Artificial Intelligence, Systems Design, Statistical Computing(R), Web Programming

Recipient of the Arizona Distinction Tuition Scholarship

EXPERIENCE

PRIME Electric   Bellevue, WA
Software Engineer Intern, IT Department   July 2025 - August 2025
- Built a full-stack web application integrating with the Asset Panda API to dynamically retrieve, filter, and export company asset reports as PDFs, eliminating a major workflow bottleneck for Project Managers.
- Automated report generation and emailing via API integration, significantly reducing manual work for the IT department.
- Deployed and configured the application on IIS and collaborated directly with the CIO and IT leadership to ensure secure, reliable internal access aligned with company needs.

PROJECTS

Flight Delay Forecasting Model using Machine Learning   Tucson, AZ
Co-Creator   March 2024
- Conducted exploratory data analysis on flight and weather data, including precipitation trends and dimensionality reduction, to identify delay-driving features.
- Built a logistic regression model predicting delays greater than 15 minutes, achieving an AUC of 0.78.
- Applied feature engineering, cross-validation, and hyperparameter tuning to improve model robustness.

Stock Market Prediction Model   Seattle, WA
Creator   January 2024
- Developed a Random Forest classifier to identify short-term upward trends in the S&P 500 using historical prices, macroeconomic indicators, and individual stock features.
- Integrated and cleaned multiple financial datasets, handling missing values and feature inconsistencies.
- Evaluated performance using cross-validation, achieving an average precision score of 0.65.

Movie API Database   Seattle, WA
Creator   May 2023
- Developed a web application displaying movie metadata using multiple third-party REST APIs.
- Implemented infinite scrolling and dynamic content loading to improve user experience.
- Styled the application using modern CSS layout and visualization techniques.

Agronomy Department Management App   Tucson, AZ
Co-Creator   Nov 2024
- Developed a full-stack web application to manage agronomy operations using JavaScript, HTML, CSS, and a relational database.
- Implemented routes, data models, and CRUD functionality to support multiple organizations.
- Tested application functionality using simulated company data and local server deployment.

SKILLS AND ABILITIES

Technical Skills
Languages: Python, Java, C++, JavaScript, TypeScript, SQL, C
Frameworks & Tools: React, Node.js, PyTorch
Data & ML: Machine Learning, Statistical Modeling, Data Engineering, Database Design
Web: HTML, CSS, REST APIs
Systems: Operating Systems
Languages: Spanish (Limited)