

Ethan Landers

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SKILLS

Programming & Data Analysis: Python, SQL (Microsoft SQL Server), PySpark, JavaScript, C++, pandas, NumPy

Data Visualization & BI Tools: Power BI, Tableau, Matplotlib, Seaborn, Altair, D3.js

Workflow & Tools: Excel, Git, Linux, Databricks

Languages: English (native), Spanish (fluent)

PROJECTS

Medical Breakthrough Dashboard

Mar 2025 – Apr 2025

- Designed and implemented an interactive dashboard using 20th-century U.S. mortality data to evaluate the impact of major medical breakthroughs.
- Leveraged JavaScript, D3.js, Observable, and Vega-Lite to compute trends, filter datasets, and visualize cause-of-death metrics.
- Visualized death share and percent change post-breakthrough across leading causes using clear, intuitive charts.
- Applied dashboard best practices (clarity, encoding, user interaction) to reveal compelling health insights.

Walkability & Well-Being – An Urban Analysis

Aug 2023 – Dec 2023

- Performed data exploration and cleaned large datasets with Python (pandas) to analyze urban neighborhood features and identify correlations between walkability and well-being.
- Produced visualizations using Matplotlib and Seaborn to illustrate data characteristics and reveal key findings.

EXPERIENCE

Business Analyst Real Estate Intern | Chartway Credit Union

May 2025 – July 2025

- Automated monthly mortgage GL expense forecasting by transitioning a manual Excel model into Power BI with DAX, reducing processing time and improving accuracy of financial predictions.
- Rebuilt and optimized dashboards by querying Microsoft SQL Server directly, improving load speed and ensuring only relevant data was used.
- Delivered a capstone presentation to 75–85 employees, including C-suite leadership, communicating methodology, insights, and business impact of forecasting automation.
- Authored project documentation and code annotations to ensure seamless knowledge transfer to Business Analysts, enabling project continuity after internship completion.

Research Analyst Intern | Lee Health

Apr 2024 – Aug 2024

- Conducted in-depth analysis of companies leveraging digital tools to enhance mental health staffing and care delivery.
- Compiled a comprehensive vendor landscape and vetted several promising companies.
- Presented findings to AI Governance Council, including senior leaders and executives.

Educational Program Coordinator | NASA@MyLibrary

Oct 2021 – Jun 2023

- Delivered nationwide Zoom-based STEM programs for youth on the James Webb Space Telescope, Python programming, and more.
- Collaborated with NASA and library staff to curate educational content for various age groups and learning levels.
- Developed and delivered engaging Python coding lessons for students.

Student Researcher | National Science Foundation

Jun 2022 – Aug 2022

- Conducted research to assess the MultiVerS model, an automated system for scientific claim verification.
- Preprocessed data to generate an open-domain dataset with a 75% consensus rate for independent labeling.
- Implemented and assessed the MultiVerS model, identifying limitations and suggesting improvements.
- Published as a coauthor for research findings in the 8th National Workshop for REU Research in Networking and Systems.

VOLUNTEER EXPERIENCES / ORGANIZATIONS

Organizer | Tech Alliance of Southwest Florida

Dec 2023 – Present

- Lead community outreach and technology education initiatives for a prominent Southwest Florida tech group with over 800 members, contributing to a combined membership of 2,000 across all associated groups.
- Partner with Grammerhub, a Miami-based tech community, to provide emerging developers with GitHub issues to redesign the Tech Alliance's website, improving its functionality and accessibility while offering hands-on experience through a nonprofit open-source initiative.
- Organize Python SWFL, a member group of the Tech Alliance, focusing on coordinating and leading monthly virtual Python workshops covering foundational Python concepts and applications.
- Host in-person events connecting tech professionals, students, and leaders to promote knowledge-sharing and career growth.

EDUCATION

Old Dominion University | Norfolk, VA

MS in Computer Science

August 2025

BS in Computer Science, Perry Honors College

May 2024