

Ethan Landers

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SKILLS & CERTIFICATIONS

Programming & Data Analysis: Python, JavaScript, C++, SQL, pandas, NumPy

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

Workflow & Tools: Git, Linux, Observable, OpenRefine

Languages: English (native), Spanish (conversational)

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

- Develop machine learning models to automate monthly GL expense forecasting based on mortgage production and application data.
- Build dynamic financial forecasting dashboards in Power BI using DAX, enabling real-time scenario analysis and executive decision-making.
- Extract and prepare large amounts of data from SQL-based data warehouses to support model training, trend analysis, and report building.
- Deliver a 10-minute presentation to company leadership including chiefs, summarizing project impact, methodology, and insight.

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 | Research Experience for Undergraduates Program

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

Group Organizer | Tech Alliance of SWFL

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