

Ethan Jantz

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PROFESSIONAL SUMMARY

Full stack developer with experience building scalable data systems, APIs, and automated workflows using Python, SQL, and cloud platforms. Strong collaborator with a track record of delivering end-to-end technical solutions and working across teams.

Skills: Python, SQL (Postgres, MySQL), ETL/ELT, Docker, R, ggplot, SQLAlchemy, Bash, Linux, AWS, Matplotlib, Javascript, HTML/CSS, GIS (ArcGIS, QGIS, GDAL)

PROFESSIONAL EXPERIENCE

Data Science & Analytics Fellow supporting the Office of Head Start | United States Digital Corps |
July 2023 – September 2025

- **Informed \$805M in grant funding allocation** through data analysis efforts that supported critical leadership decisions and program oversight
- **Led design and deployment of a backend API system for the Head Start Enterprise System on AWS**, building scalable data pipelines using Python and implementing comprehensive testing infrastructure with pytest
- **Built automated data processing pipelines** using SQL (MySQL, PostgreSQL), Python, R, and Quarto Markdown, significantly streamlining data reporting through comprehensive cleaning, preprocessing, and validation
- **Developed a full-stack dashboard application**, collaborating with frontend developers and non-technical stakeholders to enhance program monitoring capabilities
- **Built ticketing system** and implemented standard operating procedures to manage data requests and improve team efficiency while maintaining transparency and reproducibility

Associate Research Analyst | Chicago Metropolitan Agency for Planning | July 2022 – July 2023

- **Led migration of 150 datasets** from organization's open data portal to ArcGIS Hub and developed data governance policies aligned with industry best practices, enhancing data accessibility and transparency
- **Automated 4 data processing workflows** using Python and SQL while managing Azure cloud storage solutions, reducing manual reporting efforts and improving data infrastructure accessibility
- **Analyzed and visualized spatial/tabular data** using R and Python to generate actionable insights for planning initiatives, while **providing technical training to 20 staff across 2 departments** on R and git.

Research Assistant | Nathalie P. Voorhees Center | Sep 2019 - July 2022

- Engineered a **dashboard using R Shiny, CSS, and JavaScript** to visualize accessibility data across 200 cities, improving stakeholder engagement.
- Designed and implemented **ETL workflows** for transportation and census data with **R and bash**, enabling reproducible data processing pipelines.
- Built **PostgreSQL and MongoDB databases** to support complex urban research projects.

EDUCATION

University of Illinois at Chicago

- **Master of Science in Civic Analytics** (May 2022) | GPA: 3.73
- **Bachelor of Arts in Urban Studies** (May 2020) | Summa Cum Laude | GPA: 4.0

PROJECTS & PUBLICATIONS

- **“Addressing Barriers to Homelessness Data in Illinois”** - Jantz, Ethan and Connelly, Sean and Cooper, Alyssa, Addressing Barriers to Homelessness Data in Illinois (June 8, 2023). Institute of Government and Public Affairs Research Paper, Available at SSRN: <https://ssrn.com/abstract=4487654> or <http://dx.doi.org/10.2139/ssrn.4487654>