

ETHAN JANTZ

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SUMMARY

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

EXPERIENCE

Head Start | Data Science & Analytics Fellow, United States Digital Corps Jul 2023 – Sep 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, preprocessing and validation
- Developed a full-stack dashboard application, collaborating with frontend developers and non-technical stakeholders to enhance program monitoring capabilities
- Built a ticketing system and implemented standard operating procedures to manage data requests and improve team efficiency while maintaining transparency and reproducibility

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

- Led migration of 150 datasets from the organization's open data portal to ArcGIS Hub and developed data governance policies aligned with industry best practices, enhancing data accessibility and transparency
- Automated four 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 two departments on R and git.

Nathalie P. Voorhees Center | Research Assistant Sep 2019 - Jul 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 research databases supporting transportation, demographic, and housing research using PostgreSQL and MongoDB
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SKILLS

Python, SQL (Postgres, MySQL), ETL/ELT, Docker, R, SQLAlchemy, AWS, JavaScript, GIS (ArcGIS, QGIS, GDAL)

EDUCATION

University of Illinois at Chicago

Master of Science in Civic Analytics

2022

Bachelor of Arts in Urban Studies | Summa Cum Laude | GPA: 4.0

2020

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>