

HANNAH VANWINGEN-ECKERTOVA

Software Engineer, Data Analysis & Visualization

✉ hannahvanova@gmail.com

📞 (616) 481-1080

📍 Detroit, MI

🔗 hvanova.github.io

From research and design to development and testing, I advance software capabilities to support impact-driven initiatives. With experience working in academic and corporate environments, I leverage statistically informed techniques and accessible visual engagement methods to communicate data-driven stories. I am passionate about applying the latest tools to develop solutions for complex challenges in data analysis.

WORK EXPERIENCE

Lark Health Technologies

Software Engineer II, Data Engineering and Visualization

📅 June – Dec. 2023

📍 Remote

- Implemented data parsing, transformation, and quality assurance pipelines for timely delivery of key business metrics
- Initiated data tracking using the Soda data quality platform to enhance observability and bolster data reliability
- Optimized complex data processing, ensuring timely delivery while minimizing resource utilization
- Supported a newly hired data analytics team in documenting data models, workflows, best practices, and troubleshooting

Software Engineer I, Data Engineering and Visualization

📅 Jan. 2022 – June 2023

📍 Remote

- Led the development of a configurable and automated data reporting service in React using JavaScript/TypeScript and Next.js
- Collaborated with cross-functional teams to design and implement data visualizations using D3.js
- Demonstrated commitment to ensuring reliable data systems performance by participating in on-call responsibilities using Opsgenie
- Documented product requirements and metric calculation details to maintain data integrity and capture best practices for further development and addressing common issues

Michigan Aerospace Corporation

Research Scientist, Data Visualization

📅 July 2019 – June 2020

📍 Ann Arbor, MI

- Led the development of a highly interactive and configurable D3.js data visualization library that enables users to explore complex datasets for time series, confusion matrices, stacked bar graphs, 2D Gaussian distributions, and networks
- Wrote a grant proposal to the US Department of Energy for a data-sharing platform that automates the detection of data types and anomalies and displays an optimal and interactive data visualization

University of Michigan Digital Projects Studio

Data Visualization Intern

📅 Sept. 2018 – May 2019

📍 Ann Arbor, MI

- Collaborated in designing and implementing a unique and interactive multidimensional data visualization for text citations using D3.js
- Created an interactive tutorial for network-based data modeling and statistical analysis in Python using Jupyter Notebooks, providing an accessible platform to learn and apply cutting-edge statistics

EDUCATION

B.S.

Physics, Complex Systems,
Computer Science

University of Michigan

📅 Sept. 2015 – Aug. 2019

📍 Ann Arbor, MI

CERTIFICATIONS

Techniques and Frameworks
for Data Exploration

📅 Oct. 2022 – Dec. 2022

SKILLS

Data Science

Full Stack Development

Interactive Visualization

ETL Development

Technical Writing

Languages

- Python – Advanced
- JavaScript – Advanced
- TypeScript – Advanced
- HTML/CSS – Advanced
- SQL – Advanced
- Scala – Experienced

Frameworks

- React – Advanced
- Next.js – Advanced
- Vue.js – Experienced

Libraries

- d3.js – Advanced
- jQuery – Experienced
- Pandas – Experienced
- NumPy – Experienced
- scikit-learn – Experienced
- Shapely – Experienced
- TensorFlow – Learning

Platforms/Tools

- Git – Advanced
- Jupyter Notebooks – Advanced
- Snowflake – Advanced
- Databricks – Advanced
- AWS – Experienced
- Docker – Experienced
- Spark – Experienced
- Airflow – Experienced