

# HANNAH VANWINGEN-ECKERTOVA

## Software Engineer, Data & Visualization

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📍 Detroit, MI

🔗 hvanova.github.io

From research and design to development and testing, I work to tell powerful stories and develop nuanced understandings that empower action through accessible and interactive data engagement. Experienced in research and software engineering, I am seeking roles in data analytics and/or frontend engineering with a preference for interactive data visualization and tool development.

### WORK EXPERIENCE

#### Lark Health Technologies

##### Software Engineer II, Data Engineering and Visualization

📅 June – Dec. 2023      📍 Remote

- Designed and implemented data parsing, transformation, and quality assurance pipelines using Scala and Spark
- Initiated data tracking using the Soda data quality platform to enhance observability and bolster data reliability
- Optimized complex data processing workflows, ensuring timely delivery while minimizing resource utilization
- Supported a newly hired data analytics team in documenting data 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
- 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

#### Languages

- JavaScript – Advanced
- TypeScript – Advanced
- HTML – Advanced
- CSS – Advanced
- Python – Advanced
- SQL – Advanced
- Scala – Intermediate

#### Frameworks

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

#### Libraries

- d3.js – Advanced
- jQuery – Intermediate
- Pandas – Intermediate
- NumPy – Intermediate

#### Platforms

- Git – Advanced
- AWS – Intermediate
- ArcGIS – Beginner

### VOLUNTEER WORK

#### 826 Michigan

Creative writing tutoring

📅 March 2024 – Present

Swords Into Plowshares  
Peace Center and Gallery

📅 Jan. 2024 – Present