

HANNAH VANWINGEN-ECKERTOVA

Software Engineer – Full Stack, Data, & Analytics

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📍 Detroit, MI

🔗 hvanova.github.io

Committed to sustainable and equitable development, I create robust solutions for strategic initiatives. My cross-functional expertise has cultivated a career focused on interdisciplinary collaboration, design-thinking, scalable implementation, and comprehensive quality assurance. I am excited to learn, build, and connect.

WORK EXPERIENCE

Lark Health Technologies

Software Engineer II, Data Engineering and Visualization

📅 Jan. 2022 – Dec. 2023

📍 Remote

- Led the Agile development of an automated data reporting service in JavaScript/TypeScript and CSS using React and Next.js, working closely with stakeholders to define and implement business metrics
- Collaborated with cross-functional teams to design and implement responsive data visualizations in D3.js for custom business reports
- Built Scala transformers for data parsing, transformation, testing, and cataloging; processed with Spark, orchestrated with Kubernetes, and scheduled with Airflow
- Developed data pipeline quality assurance alerting using the Soda platform in Databricks to upgrade observability for stakeholders
- Documented technical product requirements and detailed metric calculations to capture version release changes for data services
- Managed data loading and storing privileges in AWS S3
- Optimized complex data joins and queries, reducing latency by 50%
- Contributed to a functional and SOLID-principled DAG development component library
- Mentored a newly hired analytics engineering team in data transformation workflow and troubleshooting
- Demonstrated commitment to ensuring reliable data systems performance by participating in Opsgenie on-call rotations

Michigan Aerospace Corporation

Research Scientist, Data Visualization

📅 July 2019 – June 2020

📍 Ann Arbor, MI

- Led the development of a responsive and interactive data visualization library in D3.js using React
- Developed, tested, and published open-source NPM packages with UI components for standardized web app development
- Implemented a data ingestion pipeline using DroneDeploy API, ensuring real-time data streaming and processing
- Designed, implemented, and tested a geographic heatmap visualization using GeoJSON files and ML classification output
- Developed an image classification model in Python to detect vector fields, creating training sets for AI applications

University of Michigan Digital Projects Studio

Data Visualization Intern

📅 Sept. 2018 – May 2019

📍 Ann Arbor, MI

- Designed and implemented a responsive and interactive data visualization web app in D3.js using React and Node.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

Bachelor of Science

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

Object-Oriented Programming

- Python – Advanced
- C++ – Experienced
- Scala – Experienced

Data & Analytics Engineering

- Snowflake – Advanced
- Databricks – Advanced
- Apache Spark – Experienced
- Kubernetes – Experienced

Data Science

- SQL – Advanced
- Pandas – Experienced
- Scikit-learn – Experienced
- PyTorch – Experienced
- TensorFlow – Learning

Cloud Deployment

- AWS – Advanced
- Airflow – Advanced
- Docker – Advanced

Web App Development

- JavaScript – Advanced
- TypeScript – Advanced
- HTML/CSS – Advanced
- React.js – Advanced
- Node.js – Experienced
- Next.js – Advanced
- Vue.js – Experienced
- Svelte – Experienced
- Django – Experienced
- Flask – Experienced

Design & Visualization

- Figma – Advanced
- D3.js – Advanced
- Tableau – Experienced
- ArcGIS – Experienced