HANNAH VANWINGEN-ECKERTOVA

Software Engineer, Data Analytics & Visualization

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I build software to drive impact, transforming complex dynamics into actionable insights. Bringing a computational approach to data-driven storytelling, I thrive in environments encouraging deep examinations, creative approaches, nuanced problem-solving, and continued learning. I am especially motivated by the intersection of data and advocacy for collective good and equitable reform.

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 to explore a variety of datasets
- Implemented a Python classification model detecting vector fields, creating training sets for a more scalable machine learning solution
- Collaborated on data analytics for the ARGOS.ai project, a holistic AI platform that utilizes real-time drone imagery to identify and map invasive plant species

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