HANNAH VANWINGEN-ECKERTOVA

Software Engineer, Data & Full-Stack

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Committed to sustainable and equitable growth, I create robust technical solutions and engaging user experiences for strategic action. My multidisciplinary expertise has cultivated a career focused on collaborative design thinking, continuous learning, innovative problem-solving, scalable implementations, and rigorous quality assurance.

WORK EXPERIENCE

Lark Health Technologies

Software Engineer II, Data Engineering and Visualization

June – Dec. 2023 Remote

- Led feature development and automation of a data reporting service in JavaScript/TypeScript and CSS using React and Next.js
- Implemented data parsing, transformation, and quality assurance pipelines in Scala using Spark and S3
- Initiated data alerting using the Soda data quality platform in Databricks 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 redesign and configuration of a data reporting service in JavaScript/TypeScript and CSS using React and Next.js
- Collaborated with cross-functional teams to design and implement responsive data visualizations in D3.js
- Demonstrated commitment to ensuring reliable data systems performance by participating in on-call rotations using Opsgenie
- Documented technical product requirements and metric calculations to maintain data integrity and capture version release details
- Created scheduled tasks in Airflow and contributed to a functional and SOLID-principled DAG development component library

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 JavaScript and CSS using React and D3.js
- Implemented a Python image classification model detecting vector fields, creating training sets for machine learning applications
- Collaborated on front-end development and API integration for an AI platform in JavaScript and CSS using React and Node.js

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 in JavaScript, D3.js, and CSS 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

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

Responsive Web Design
Interactive Data Visualization
Dimensional Data Modeling
ETL Pipeline Development
Technical Documentation

Languages

- JavaScript – Advanced
- TypeScript – Advanced
- CSS – Advanced
- SQL – Advanced
- Python – Advanced
- C++ – Experienced
- Scala – Experienced

Frameworks & Environments

- Next.js – Advanced
- Vue.js – Experienced
- Node.js – Experienced
- Apache Spark – Experienced
- Soda– Experienced

Libraries

- React – Advanced
- D3.js – Advanced
- Pandas – Experienced
- Scikit-learn – Experienced
- TensorFlow – Learning

Platforms & Tools

- Git – Advanced
- Excel – Advanced
- S3 – Advanced
- Databricks – Advanced
- AWS – Experienced
- Docker – Experienced
- Tableau – Experienced
- Airflow – Experienced