Jonah Alsfasser

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Education

Michigan State University **Sep. 2023 – Current**
Bachelor of Science in Computer Science —Bachelor of Science in Physics *East Lansing, Michigan*

Relevant Coursework

- Python
- Computational Modeling
- C++
- Calculus 1,2,3
- Java/Javascrpit
- Physics 1,2
- CS50
- Discrete Math
- Node.js
- HTML
- Google Cloud
- Numpy
- Pandas
- Matlab
- Rust
- GraphQL

Experience

DataAnnotation **January 2025 – Current**
Freelance Software Developer *Remote*

- Freelance software developer delivering high-quality, custom software solutions on a project-by-project basis. Specializing in Python, HTML, Rust & JavaScript.

WeCLEAN Inc. **December 2024 – Current**
Software Engineer - Lead *East Lansing, Michigan*

- Designed and developed scalable software solutions to enhance business operations, automation, and user engagement. I lead technical projects, collaborate with cross-functional teams, and leverage cutting-edge technologies to drive innovation and efficiency within the organization.

Weinstein Jewelers of Novi **June 2022 – June 2024**
Data Systems Analyst Internship *Novi, Michigan*

- Leveraged data analysis to identify customer trends and drive sales growth. Additionally supported sales strategies by optimizing campaigns based on data insights.

Michigan State University **Incoming**
Computational Data Science TA *East Lansing, Michigan*

- Supporting both students and instructors by bridging the gap between lectures and practical application.

Projects

WeCLEAN Inc. - Full Stack Web Design | *HTML, Node.js, API Integration, Databases, Google Cloud* **January 2025**

- Engineered a system that seamlessly connects with donor and customer databases through APIs, ensuring real-time data flow and synchronization. This integration improves data accuracy, operational efficiency, and informed decision-making.
- Designed and built a dynamic web platform from the ground up, integrating both front-end and back-end technologies to create a seamless user experience. Ensured a responsive and intuitive interface that enhances accessibility and engagement.
- Implemented automation features to streamline internal processes, reducing manual workload and increasing efficiency. These solutions enable real-time analytics, predictive insights, and optimized workflows for business growth.
- Designed the platform with a scalable architecture that supports future expansion and high data loads. Leveraged modern technologies to ensure long-term adaptability, system reliability, and business sustainability.

Independent Study - Risk-Return Analysis of Cryptocurrency | *Python, HTML, MATLAB, Seaborn* **January 2025**

- Developed an end-to-end data analytics pipeline in Python using Jupyter Notebook, Pandas, NumPy, Matplotlib, and Seaborn to process and visualize historical data for 23 cryptocurrencies.
- Computed key financial metrics—including annualized returns, volatility, and Sharpe ratios—to evaluate risk-return profiles and uncover long-term investment opportunities.
- Translated complex data into clear, actionable insights that enhanced market understanding and guided investment decision-making.

Technical Skills

Languages: Python, JavaScript, Java, C++, Rust, HTML, CSS,
Developer Tools: VS Code, Git, GitHub, GitLab, Figma, GitHub Actions, MATLAB
Technologies/Frameworks: React, Node.js, GraphQL, Google Cloud, NumPy, Pandas, SciPy, Matplotlib, Data Visualization, Object-Oriented Programming (OOP), Test-Driven Development (TDD), Cloud Storage, Deployment