Matthew Sisserson

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EXPERIENCE

Software Engineer - Open Source Contributor, *ZenML*   2024 – present
- Enabled creation and editing of machine learning pipelines on cloud platforms through simple configuration documents executed with Terraform
- Enhanced ML configuration validation for more robust error handling when parsing invalid user input

Creator, Software Engineer, *Otto - www.otto-etl.com* 🔗   2022 – 2023
- Created an open-source, web-based, automated ETL workflow manager capable of extracting 200K+ PostgreSQL database rows, transforming that data, and loading it at scheduled intervals
- Generated a recursive workflow execution algorithm enabling parallel task executions and increasing a workflow's maximum nodes from 5 to 30+
- Implemented real-time workflow execution log and metric streaming to the UI via server-sent events, empowering users to diagnose workflow failures and bottlenecks
- Enabled users to join and transform extracted data by constructing a system for acquiring and executing arbitrary user code against multiple sources of data using Node.js VM and Code Mirror 6
- Containerized application using Docker which allowed installation without setting up databases and environment variables, achieving an 70% reduction in installation and configuration time
- Developed an execution scheduler using Node-Cron that automatically runs workflows at specific intervals and reschedules executions in the event of a network fault or server restart
- Wrote REST API endpoints that perform CRUD operations on workflow, execution, and metrics resources
- Led stand ups, sprint planning sessions and weekly retrospectives for a four-person remote team

Software Development Tutor, *Self-employed*   2021 – 2023
- Improved student test performance by 20%
- Developed tutoring curriculums catered to individual student needs
- Tutored 250+ hours of Ruby, JavaScript, and Python

Software Engineer, *Self-employed*   2020 – 2022
- Independently developed Evently: A SaaS event scheduler that collects customer data and sends customer notifications hosted on AWS (Next.js, React, Ruby on Rails, AWS, EC2, S3, IAM)
- Led design on a professional platform that would organize and collect agreements, legal documents, messaging, and invoices for contractors and their subcontractors in preparation for tax season (React, Ruby on Rails, PostgreSQL, AWS, EC2, IAM)

Laboratory Technician, *Hiram College*   2015 – 2019
- Developed a custom filter holder and black box which increased spectrophotometer effectiveness by 250% and saved the lab $20,000 in equipment expenses
- Collected and analyzed over 25,000 data points for the study of heliobacteria photosynthesis

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SKILLS

Backend
Node.js, Express.js, Python, Django, Ruby, Golang, SQL, PostgreSQL, RESTful APIs

Frontend
TypeScript, Next.js, React, Redux, HTML/CSS, Jest

Other
AWS, Docker, Git, Linux, Bash, Architecture, Infrastructure, Prototypes, Figma, Terraform

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EDUCATION

B.A., Biochemistry, *Hiram College - 3.76 GPA*   2019