

Jonah Saidian

Machine Learning Infrastructure Engineer

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TOP SKILLS

Machine Learning: Sklearn, Pytorch, TensorFlow, MCMC, GPR, Random Forest, Neural Networks, Chaos Simulation, Cross Validation, Pipelines, Live Prediction Deployment, ARD

Infrastructure: CI/CD, Docker, Docker Compose, Kubernetes, Terraform, Helm, SQL, Django, Pytest, Pre-Commit, GitLab, API's, PIP Deployment, MkDocs, Cloud Deployment, AWS, Digital Ocean, Auth0, CloudFlare, Anti-Scraping

General: Markdown, Python, JavaScript, TypeScript, Node.js HTML5, C/C++, Linux, Mentorship, Teaching, Experimentation, Published Research, JIRA, Agile, Scrum, Leadership, Project Management

WORK EXPERIENCE

Senior Machine Learning Infrastructure Engineer

Aug. 2023 – Present

ReJoule Inc, Signal Hill, CA

Progressed as Team Lead for both the ML and Software teams. Managed multiple engineers, set goals in conjunction with stakeholder priorities, top level ownership of production software

- Led a diverse team of engineers and scientists prioritizing efficiency and smart goals
- Optimized ML initiatives by building powerful internal tools to reduce data analysis and model building time by over 30%
- Overhauled database and application to support complex tests leveraging new hardware technology, processing tests 300% larger than previously possible
- Optimized Data reporting queries, reducing backend processing time by 60%
- Prioritized mentorship and documentation in tandem with engineering progress to balance quality code with output quantity

Machine Learning Infrastructure Engineer

Dec. 2022 – Aug. 2023

ReJoule Inc, Signal Hill, CA

Became lead of the Machine Learning team at ReJoule and was owner of multiple deployed ML models used by customers and internally

- Scaled and containerized application to enable global reach for ReJoule Devices, now deployed in 3 continents
- Continued to spearhead ML development through data to model pipelines utilizing CI/CD techniques
- Built upon the cloud deployment, integrating new tools such as S3 buckets, Redis caching, Auth0 security, Cloudflare anti-scraping, and Grafana monitoring to support cloud ML model deployment and application integration of models for customers
- Implemented multitenancy and advanced permissions in our database, improving security and privacy for clients

Data Ops Engineer

Nov. 2021 – Dec. 2022

ReJoule Inc, Signal Hill, CA

Worked with the software team at ReJoule to build scalable infrastructure and founded the cloud team to expand our reach globally as well as improve all of our internal technologies

- Switched all data collection from manual google drive uploads to a robust data pipeline, integrating hardware, REST API, and PostgreSQL
- Led the ML team to develop and deploy multiple custom models for battery health predictions based on experimental data
- Developed a full cloud deployed infrastructure leveraging helm, terraform, and kubernetes to automate deployment
- Mentored and managed multiple software engineering interns

Independent Researcher

Sept. 2014 – Aug. 2020

University of Arizona, Tucson, AZ University of California: San Diego, San Diego, CA

Performed independent research as an Undergraduate and Graduate focusing on data, hardware, and statistical analysis

- Modeled, designed, and analyzed 2D magnetic materials in spintronics heterostructures using ML and thin film technology
- Developed ML models to create statistical likelihood curves for cosmological parameters
- Leveraged supercomputing resources to execute large-scale universe simulations and MCMC optimizations
- Wrote and defended a full Master's Thesis covering relevant research topics

EDUCATION

University of Arizona, Tucson, AZ

- Master's of Science — Physics

University of California: San Diego, San Diego, CA

- Bachelor's of Science, Double Major — Mathematics — Computational Physics