

Seth J. Rothschild

Citizenship: USA

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Summary

Senior Software Engineer with Ph.D in Mathematics and six years experience with Programming and DevOps. Track record of excellence in quickly writing high-quality software, project leadership, mentorship, reviewing patents, and deploying production code. Open to technical leadership, software engineering, or software management roles.

Experience

Senior Software Engineer | Dell Technologies Office of the CTO 2018-Present

- Technical lead on COO-commissioned 58 person AI LLM project. (2023)
 - Wrote scripts and tooling for architecture, build, and deployment strategy. Demonstrated and mentored software engineering practices while personally delivering critical components and solving issues.
 - Managed an 8 person ops team. Dramatically improved application uptime, monitoring, and robustness.
- Technical lead on CTO software engineering team of 20 people.
 - Solved ambiguous problems with cutting-edge technology and build production code as an organization of last resort. Implemented code for AI/ML, cryptography, quantum computing, and data management.
 - Guided team on prioritization, project design, technical direction, and quality. Improved team Extreme Programming Agile practices such as pair programming, test driven development, and rapid iteration.
- Drove DevOps tool creation, selection, and adoption.
 - Go-to SME on infrastructure-as-code, CI/CD, private and public cloud, Docker, SSO, certificates, networking, and improving the developer experience. Managed our team's servers, containers and VMs.
- Recognized as research leader in Dell Technologies.
 - Authored 6 granted patents, 12 patents pending. Patent committee member for Pan-Dell patent proposals since 2020. Member of 4 person committee to evaluate Quantum patent proposals since 2024.
 - First from Dell nominated and invited to attend highly competitive Frontiers of Engineering conference.

Research Scientist | Feature Labs Inc. 2017-2018

- Represented MIT in D3M, a DARPA project for automated AI/ML discovery.
- Contributed to *Featuretools* project (7k stars on GitHub).

Teaching Assistant | Tufts University 2012-2017

- Awarded *Graduate Institute for Teaching Fellowship* 2015.
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Software Skills

- AI/ML: Dask, Featuretools, JupyterLab, Keras, NumPy, OpenCV, PyTorch, Scikit-Learn, TensorFlow, TGI
 - Full Stack: Python (Authlib, Black, Click, Django, Flask, Flake8, Hypothesis, MyPy, Pytest, Requests, Sphinx, Urllib3), Javascript (Elm, React/Redux, Svelte), Go, SQL (MySQL, Postgres, SQLite), C
 - DevOps: Scripting (Ansible, Bash, Python, SSH), CI/CD (Concourse, GitHub, GitLab), Containers (Docker, K3s, Kubernetes), IaC (ESXi, LXD, Proxmox, Terraform, vSphere), Cloud (AWS, GCP, VMWare Tanzu), Monitoring (Grafana, Prometheus), Proxying (Caddy, NGINX, HAProxy)
 - Misc: Emacs, Vim, Git, Linux, OSX, LaTeX, GitHub Copilot
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Education 2012-2017

Doctor of Philosophy, Mathematics | Tufts University

- President - Organization of Graduate Students in Mathematics (OGSM) at Tufts

Bachelor of Science, Mathematics | Syracuse University

2008-2012

- Minor in Physics, Renée Crown University Honors Program