

Isaak Getz

Salt Lake City, 84108 • [Linkedin](#)

EDUCATION

University of Utah

Graduating December 2023

Bachelor of Computer Science

GPA: 4.0

- Courses: AI, Computer Architecture, Distributed Systems, Machine Learning, Parallel Programming
 - Presidential scholarship recipient
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SKILLS / INTERESTS

- Languages: Python, Java, C/C++, Go, and C#
 - Tools: Docker, Git, GitLab, Google Cloud, HDF5, Helm, Kubernetes, Linux, PostgreSQL, Vim
 - Personal: photography (published in Wasatch magazine), rock climbing, skiing, mountain biking
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EMPLOYMENT

Sandia National Laboratories

May 2023 to August 2023

Software Development Intern

Albuquerque, NM

- Parallelized HDF5 file I/O and compression, resulting in 3x write speed increase (C++ and OpenMPI).
- Added GZIP compression to internal data processing library, reducing output file size by 75% (C++).
- Created internal library for evaluating satellite ground system data processing performance (C++).
- Wrote benchmarking tools for comparing HDF5 file compression strategies (Python).
- Built wrapper Python library for ResNet image classifier in ML deployment course.

InnoSys

September 2021 to October 2022

Software Developer / DevOps Engineer

Remote / Salt Lake City, UT

- Re-architected IoT sensor data analytics, greatly improving code structure and reusability (Python/Django).
- Built real-time alert feature with the Twilio SMS API to provide critical sensor condition warnings.
- Installed and configured a diverse collection of software running on Google Kubernetes Engine including Scylla, NGINX ingress, Keycloak, Astarte (IoT data platform), and a proprietary Django/React web app.
- Reduced software deployment time 10x with CI/CD system on Google Cloud/GKE.
- Led interviews to screen potential new interns, and mentored/onboarded new hires.

SLATE (University of Chicago & University of Utah Joint Research Project)

August 2020 to August 2021

High Performance Computing Intern

Remote / Salt Lake City, UT

- Packaged Telegraf (monitoring/metrics service) as a Kubernetes application (Helm chart).
- Wrote tutorials demonstrating Kubernetes cluster setup with Ansible and Kubespray on various scientific testbeds (CloudLab and Chameleon).
- Helped operate and maintain SLATE's software and infrastructure (network of K8s clusters).
- Fixed bugs on and added features to the SLATE client and server (large C++ codebase).

POWDER Project (Platform for Open Wireless Data-driven Research)

Summer 2020

Undergraduate Research Intern

Remote

- Learned Linux/networking fundamentals by exploring Named Data Networking (layer 3 protocol).
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PROJECTS

- Custom flight search engine in Java/Spring and React (first-place senior capstone design project)
 - Dynamic memory allocator in C
 - Raft consensus protocol in Go
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NOTABLE ACHIEVEMENTS

- Team lead for first-place senior capstone design project (budget-friendly flight search engine)
- Viewmont High School Valedictorian, National Merit Scholarship Finalist
- Spent 3.5 months solo traveling through Costa Rica, Mexico, Portugal, and Spain