

# 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
- 

## 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
- 

## 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). Deployed application to monitor University of Utah infrastructure with SNMP.
- Wrote tutorials demonstrating Kubernetes cluster setup with Ansible/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).
- 

## PROJECTS

- Custom airfare search engine in Java/Spring (capstone project, in-progress)
  - Dynamic memory allocator in C (given starter code)
  - Raft consensus protocol in Go (given starter code)
- 

## NOTABLE ACHIEVEMENTS

- Viewmont High School Valedictorian, National Merit Scholarship Finalist
- Spent 3.5 months solo traveling through Costa Rica, Mexico, Portugal, and Spain