Dylan Gardner

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Salt Lake City, Utah

Programming Languages & Skills

Python, Golang, Linux sysadmin, C, C++, Git, Bash, PostgreSQL, HTML/CSS, Javascript

Education

Fall 2020   **B.S. Computer Science** *University of Utah* GPA: 3.475.
- Data Structures and Algorithms
- Operating Systems
- Distributed Systems

Experience

March 2018 – Present   **Technical Assistant** *Center For High Performance Computing (CHPC)* University of Utah.
- Researched and collaborated on a Linux daemon in Python called Arbiter2 that automated enforcement of acceptable usage policies on shared nodes; *Used at CHPC and a number of other HPC centers nationwide.*
- Published a ACM paper on the software above that was presented at a national HPC conference (PEARC). Won best poster award for that software at a regional HPC conference (RMACC).
- Collaborating on a project to improve monitoring of CHPC's environment and network traffic using Prometheus, InfluxDB, SNMP and Grafana.

Summer 2020   **High Performance Computing Intern** *Idaho National Laboratory* Idaho Falls, ID.
- Worked with a fellow intern to bring a 15x speedup on a Python-based sensitive text obfuscator by creating a trie-based plaintext and regex optimizer.
- Developed a user monitoring system using PostgreSQL to monitor logins/logouts across nodes.

Summer 2016   **Networking Intern** *Canyons School District* Sandy, UT.
- Set up, planned and configured network switches and access points with local school administrators from across the district.
- Helped create a Java application that led to ~2x faster configuration of switches.

Projects

Salt Lake City Crime Heatmap A interactive Javascript heatmap of Salt Lake City crime parsed and converted using Python & Pandas from open source data. At dylngg.github.io/slc-crime-heatmap/.

Discord Email Notifier Developed a Python daemon using Discord's API to batch notifications to a email. At github.com/dylngg/discord-notification-emailer.

userctl Currently developing a Linux D-Bus daemon in C that sets configurable limits on users and groups with systemd cgroups. At github.com/dylngg/userctl.