Dylan Gardner

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Salt Lake City, Utah

Computer Skills

Languages & Skills

Python, C, C++, Linux sysadmin, Git, Java, Bash, SQLite, C#, HTML/CSS, Javascript

Education

Fall 2020

B.S. Computer Science *University of Utah* Junior Overall GPA: *3.483*.

- Software Practice I & II
- Data Structures and Algorithms
- Computer 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 that automated enforcement of acceptable usage policies on shared nodes; *Used at CHPC and several 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).
- Developed various tools (Python, Bash) and software to help manage and monitor clusters, saving countless hours.
- Leading a project to improve monitoring of CHPC's environment and network traffic using Prometheus, SNMP and Grafana.

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 https://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 https://github.com/dylngg/userctl.

Minimal Shell Created a minimal C shell with piping and foreground/background functionality. For Computer Systems.