Dylan Gardner

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Computer Skills

Languages & Skills (by skill level)

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

Relevant Coursework

- 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). Also won the best poster award for the same software at local HPC conference (RMACC).
- Developed various tools and software to help manage, monitor and 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.

Education

Fall 2020

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

Projects

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

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/discord-notification-emailer.