

EDUCATION

Purdue University,
Major: Computer and Information Technology
Concentration: Network Engineering Technology

August 2011 – May 2015

SKILLS

Languages: Python, GoLang, C, Bash, Java, \LaTeX
Technologies: Postgres, MySql, Docker, Puppet, Saltstack, Linux, VMWare

EXPERIENCE

Software Senior Engineer
Software Development Engineer
Software Development Engineering Intern
Dell EMC – Isilon

October 2018 – Present
June 2015 – October 2018
May 2014 – August 2014

- Designed and built a business intelligence platform based around a Postgres database
- Architected and built python tooling for filling that database using processed customer log data
- Resolved engineering questions and triaged field issues using our business platform
- Developed a set of dashboards in collaboration with Solutions Engineering leads to identify customers nearing storage capacity, leading to added sales
- Taught other Engineering teams how to leverage the data that we collected to investigate issues in their components
- Migrated internal teams' development workflow to use reproducible Virtual Machines
- Built dockerized microservices designed to collect and parse information for use in automating the assessment of incoming pull requests
- Rearchitected legacy perl-based web tools in order to improve performance and maintainability

Student System Administrator
Rosen Center for Advanced Computing

September 2011 – May 2015

- Diagnosed and repaired cluster, legacy, and storage systems
- Wrote scripts to aid in diagnosing issues on several current and former Top500 List Clusters

ACTIVITIES

CKeys

2017 – Present

- One of four founding members of the 501(c)(3) non-profit focused on introducing people to electronics and programming through mechanical keyboards
- Taught soldering workshops in partnership with the Living Computer Museum + Labs
- Organized meetups for 300+ attendees including workshops, talks, and other activities

Student Cluster Competition

September 2012 – 2015

- Worked on a team of six undergraduate students
- Compiled and ran scientific applications on a small supercomputing cluster

ACM Special Interest Group for Robotics
Software Team Leader, Head of Outreach

September 2011 – May 2014

- 2nd Place in the Programing Skills competition at Vex World Championships 2013
- Organized events and mentored high school and college robotics students

Projects

pbnh – <https://github.com/bhanderson/pbnh>

May 2016

- Built a pastebin to replace the ancient one in use at work
- Designed it to handle images, video, and other media in addition to text

Boilermake

October 2014

- Worked on a multidisciplinary team of undergraduate students
- Built a 3D-printed robotic hand controlled by Electromyography