

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, Puppet, Saltstack, Linux, VMWare

EXPERIENCE

Software Development Engineer
Dell EMC - Isilon

June 2015 - Present

- Designed, managed, 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 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

Software Development Engineering Intern
EMC² Isilon

May 2014 - August 2014

- Automated customer minidump extraction and analysis processes in Python
- Built a daemon to watch bugzilla and unpack minidumps associated with open issues

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
- Maintained 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 200+ attendees including workshops, talks, and other activities
- Selected speakers, helped them prepare talks, and assisted with the streaming of their talks online for interested people not able to be physically present at the event
- Designed, sourced parts for, fabricated, programmed, and demoed a carnival-style typing game

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
- Developed dynamic robot mapping environment for Autonomous mode

Student Cluster Competition
Member, Application Specialist

September 2012 - 2015

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

Projects

Boilermake

October 2014

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

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