Ethan Madden

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EDUCATION

Purdue University, August 2011 - May 2015
Major: Computer and Information Technology
Concentration: Network Engineering Technology

SKILLS

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

EXPERIENCE

Software Development Engineer June 2015 - Present
Dell EMC - Isilon
- 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 May 2014 - August 2014
EMC^2 Isilon
- 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 September 2011 - May 2015
Rosen Center for Advanced Computing
- Diagnosed and repaired several current and former Top500 List Clusters, and related storage systems
- Wrote scripts to aid in diagnosing issues

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

ACM Special Interest Group for Robotics September 2011 - May 2014
Software Team Leader, Head of Outreach
- 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 September 2012 - 2015
Member, Application Specialist
- 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

For more information and source code for my projects,
see my github http://github.com/jetpacktuxedo