

EDUCATION

Purdue University,
Expected Graduation Spring 2015
Major: Computer and Information Technology
Concentration: Network Engineering Technology

August 2011 - Present

Classes Taken: Intro to Object Oriented Programming with Java, C Programming, Computer Architecture, Scientific Computing, Data Communication and Networking, Object Oriented Programming with C#, Database Fundamentals, System and Network Administration, Digital Telecommunications, Inter-network Design and Implementation

University of Southern Indiana,
Major: Computer Science

August 2009 - May 2011

SKILLS

Languages: C, C#, Java, Python, Bash, Arduino (Processing), L^AT_EX
Familiar With:

- Oracle SQL and Microsoft Access SQL Databases
- Compiling and running scientific applications in a cluster environment
- Microcontroller Development

EXPERIENCE

Software Development Engineering Intern
EMC² Isilon

Summer 2014

- Examined the minidump extraction and analysis processes
- Automated the above processes in Python
- Built a daemon to watch bugzilla and unpack minidumps associated with open bugs

Student System Administrator
Rosen Center for Advanced Computing

September 2011 - Present

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

ACTIVITIES

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

September 2011 - Present

- 2nd Place in the Programing Skills competition at Vex World Championships 2013
- Teach students to program microcontrollers using C
- Developed dynamic robot mapping environment for Autonomous mode
- Drove one of the teams robots in both the 2012 and 2013 seasons

Student Cluster Competition
Member

September 2012 - Present

- Compiled and ran Molecular Dynamics Simulations at SC 2012 (LAAMPS) in Salt Lake City, Utah and ISC 2013 (GROMACS) in Leipzig, Germany

Projects

OpenLibrary

Spring 2013

- Developed a Library Database Management System
- Utilized Amazon Product Advertising API to dynamically fetch book, movie, CD, and game data from Amazon
- Developed in C# with hooks into a Microsoft Access Database

Custom Keyboard

Summer 2013 - Present

- Cherry MX Switches processed by a Teensy3 Microcontroller running custom firmware