Nathan Ohlson

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EDUCATION

Purdue University - B.S Computer Science, Minor in Physics, Minor in Astronomy

West Lafayette, IN - Expected Graduation December 2018

Experience

YJT Solutions - Intern

Chicago, IL - May 2018 - August 2018

Network and Systems support engineer intern. Supported systems of Chicago Board of Trade companies. Would often go onsite to companies and set up systems and troubleshoot network issues. Developed customer facing skills and technical communication skills.

National Aeronautics and Space Administration - Orion Flight Software Testing Intern

Johnson Space Center Houston, Texas - August 2017 - December 2017

Built a tool to schedule telemetry requests from Orion Flight Software. Worked with offsite contractors like Lockheed Martin to fix bugs and implement new features. I led a three person team to make the scheduling algorithm 3 times more efficient. My mentor nominated me for an award that I was selected for for my achievements on this project. Used Agile SCRUM process.

Cisco Systems - Network Engineer Intern

Research Triangle Park, NC - May 2017 - August 2017

Network Engineering Summer Intern. Achieved my CCENT certification. Worked for Cisco's Cloud Management Services team developing internal tools in Python for integration with Cisco's ACI framework for software defined networking.

Data Realty LLC - Data Engineer/Software Engineer Intern

Ignition Park, Indiana - May 2015 - August 2015, May 2016 - August 2016

Built infrastructure and SSO solution that is in prod. Set up a Hadoop cluster on 9 high powered servers for a major client. Wrote multi-page documentation explaining my implementation for authentication between multiple services including Tableau.Programmed primarily in Python and JavaScript/Node. My software was implemented into the ingestion process.

Purdue University - Rosen Center for Advanced Computing System Administrator

West Lafayette, IN - Fall 2015 - Present

Work with multiple clusters on campus including Conte one of the fastest supercomputers on a college campus. Maintenance hardware and software issues for each node as well as write scripts and other various side projects.

Projects - (many more not listed)

MidiSliders - Wireless MIDI Potentiometers

I built my own wireless MIDI potentiometers(sliders) with Arduino microcontrollers.

HiLingual - Language Learning Social Network

Build a backend REST API in Java for a iOS frontend application that facilitated communication in multiple languages amongst users.

Wag - Smarter Linux Logging Utility

Writing a log tracking utility that follows logs as they rotate as well as search. Still in dev.

Skills

C++, C, Python, Java, TK/GTK, QT, Wiring/Arduino, Hadoop
electronic audio, sound design, MIDI, audio engineering, synthesizers etc.
ARM microcontrollers, Arduino, Raspberry Pi
Designing and prototyping electronic circuits, etching and soldering custom printed circuit boards
VMWare ESXi, I run my own Dell R710 host. Cisco Certified Entry Network Technician, received Intern Achievement award at NASA for being a top 5 intern

Involvement

Wiley Radio Club

Fall 2017 - Present

I am involved in the Wiley Radio Club and host my own weekly radio show. I usually DJ or perform live during the show. Often I will play my own original music.

IT Director for Purdue First Programs

Fall 2016 - Spring 2017

On the executive board for PFP, a club that mentors local high schools in FIRST a national robotics competition.

Event Coordinator for Purdue Astronomy Club

Fall 2014 - Fall 2017

Creating events and coordinating logistics for PAC. I supply my own telescope as well as maintain two club telescopes.

Purdue University - Undergraduate Teaching Assistant

Spring 2017

TA for CS 408 Software Testing. I acted as a Project Coordinator for the students helping them through a SCRUM development process followed by black-box and white-box testing.