SAMANTHA VALENTEEN

SOFTWARE ENGINEER

CONTACT

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EDUCATION

University of Colorado
Boulder, CO | 2012 - 2017

BA, Astrophysics
Minor, Mathematics
Graduated *summa cum laude*

SKILLS

Python
Flask Framework
LabVIEW
LabVIEW RT
SQL
LaTex
TIA Portal
WinCC OA
Arduino
Industrial Networking

INTERESTS

Clean Energy
Reforestation
Cosmology
Kayaking
Aerial Yoga
Juggling
Fantasy Novels

EXPERIENCE

Systems and Software Engineer | DMC
Seattle, WA | March 2018 - November 2019

- Developed custom software applications for clients seeking control and data acquisition solutions in a diverse set of industries.
- Developed applications to run on real time systems.
- Configured remote devices and communication protocols to provide intersystem coordination with software applications.
- Worked on all phases of projects including sales, architecture design, implementation, code review, system testing and troubleshooting, and post project support.
- Managed day-to-day client communication and project budget/schedule tracking.

Project Researcher | ATLAS Institute
Boulder, CO | August 2017 - February 2018

- Designed and prototyped IoT air quality and foot traffic sensors to be distributed across the University of Colorado campus.
- Worked with a backend team to establish communications between all devices and server.

Research Assistant | Center for Experimental Nuclear Physics and Astrophysics
Seattle, WA | June 2016 - August 2016

- Worked as part of the Axion Dark Matter eXperiment research group.
- Programed microcontrollers to perform auxiliary functions on prototype axion haloscope.
- Helped successfully bring the project to the data-taking stage.

Research Assistant | Center for Astrophysics and Space Astronomy
Boulder, CO | January 2015 - August 2016

- Collaborated with Dr. Jeremy Darling on a project searching for astrophysical Raman spectra.
- Performed data reduction and analysis of radio spectra using IDL and Python.
- Wrote and defended an honors thesis on the topic.