



Smith Sopp

Engineer. Designer.

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Education

The Pennsylvania State University

B.S. in Computer Engineering 3.24 | 4.00
University Park, PA
Expected Graduation: December 2018

Skills

Expertise

- Automation & Scripting • DevOps
- Leadership • Embedded Systems •

Languages

- Python • Bash • HTML & CSS • C • Java
- SQL •

Software & Tools

- UNIX/Linux • Git • AWS • Adobe Illustrator
- Slack • Atlassian Suite •

Other

- Conference Speaking • Agile
- Project Management • Growth •

Relevant Courses

- Data Structures and Algorithms
- Artificial Intelligence
- Computer Vision
- Intro to Computer Security
- Operating Systems
- Intro to Computer Architecture
- Electronic Circuit Design I & II
- Communication Networks
- Probability & Stoch. Processes
- Computer Organization & Design
- Discrete Math
- Digital Integrated Circuits

Other

- DIY • Certified AASI Snowboard Instructor
- Loves to paint •

Experience

Blackboard

DevOps, Intern

Summer 2018, State College, PA

- Reduced on-call alert lead time by 83% and saved 80+ monthly hours of employee time via developing automated monitoring tool (Python) for core products
- Developed automated phone test tool (Python, Twilio), delivering and analyzing hourly test calls for completion and quality
- Pushed bug fixes in multiple tiers of full-stack web application

Vanguard

Software Engineer, Intern

Summer 2017, Malvern, PA

- Freed 20+ monthly hours of employee time and improved ticket accuracy via developing workflow automation tools (ksh, SQL, JIRA API) that processes incoming service tickets
- Arranged meetings with Cloud team members to develop foundation in industry Cloud services, along with supplementary AWS training

Rockwell Automation

Embedded Software Engineer, Co-op

May - December 2016,
Milwaukee WI

- Developed and produced 20 novel remote testing devices to automate tests on core products, significantly improving our department's capability to evaluate products (Hardware: Eagle CAD, Inventor CAD) (Software: Python, C)
- Implemented Puppet to establish consistent delivery of testing device software
- Developed on embedded Wind River Linux platform, extending functionality of their testing services and API (Python), creating kernel patches (C), fixing Anomalies (C), and updating EDID files

Leadership & Projects

HackPSU *Executive Director, 2015 - 2018*

- Led a team of 25+ in the execution of an bi-annual collaborative technology, education and innovation event of 800 attendees from over 40 universities
- Increased funding 150% from \$20,000 to \$50,000 through sponsorships & partnerships
- Grew team from 8 to 25+, introducing a maintainable and dynamic organization structure

Student Space Programs Lab *Edu. Program Manager, 2015*

- Trained 20 students in design of rocket payload structures, electronics, and software ensuring successful launch and fulfillment of all 24 mission criteria

Starboard *2nd Place, Vanguard Hackathon 2017*

- Company-wide hackathon; pitched internal peer recognition app (HTML & CSS, Javascript, Python, AWS) to Vanguard CEO & CTO