

EDUCATION

University of Virginia *Charlottesville, VA*

August 2015-Present (Grad: May 2019)

B.S. in Computer Engineering, **School of Engineering and Applied Science**

Minor in Technology Entrepreneurship, **McIntire School of Commerce**

Relevant Coursework: Data Structures and Program Representation, Algorithms, Programming Languages for Web Applications, Operating Systems, Advanced Software Development, Software Development Methods, Embedded Computer Systems, Computer Networks, Computer Architecture, Discrete Math, Digital Logic Design, Circuit Analysis, Electronics, Signals and Systems

RELEVANT EXPERIENCE

theCourseForum *Charlottesville, VA*

February 2016-Present

Lead Web Developer for the only course reviews web application at UVA.

- Maintain a student-run website that offers course reviews and teacher ratings for UVA with over 17,000 active users (80% of UVA).
- Collaborate with team on further progress of website and what features to include to make website more user friendly.
- Code on a larger team based setting utilizing GitHub and applying Bootstrap, JavaScript, Ruby on Rails, and MySQL all on Linux.
- Work on features for the application such as the Scheduling and Major Requirements and keep application updated at all times.
- Run weekly meetings in an Agile product development atmosphere and give a development tutorial before the end of the meeting.

Mission Secure, Inc. (MSi) *Charlottesville, VA*

May 2018-August 2018

Software Development Intern for a cybersecurity company which provides protection for control systems.

- Tested the company application on the interface and server level by implementing Python programs which change input parameters.
- Debugged Python scripts which emulated the creation of devices and pushed the bug fixes to the company GitLab.
- Underwent training in RabbitMQ, Penetration Testing, Metasploit Framework, and Kali Linux to ensure the security of the products.
- Developed a shell in Python which was responsible for executing the scripts which emulated devices to check their functionality.
- Wrote a Python script to automate filtering through parameters to output valid data and pushed the script to the company GitLab.

iD Tech *Washington D.C.*

May 2017-August 2017

Computer Building and Software Development Instructor for the world's top summer technology camp.

- Assembled over 60 Linux based laptops using Raspberry Pi for local high school and middle school students.
- Troubleshooted laptops by re-assembling laptop components such as the Raspberry Pi, SD cards, and graphics processing units.
- Instructed students on how to navigate through the Linux Operating System and how to efficiently use the Linux Terminal.
- Taught students how to code in Python on various text editors such as IDLE, Nano, Sublime, and PyCharm.
- Debugged multiple Python programs to efficiently get the programs to compile.

SKILL SET

Programming

- Fluent in Python, Java, HTML, CSS, C++, C
- Proficient in JavaScript, PHP, MySQL, x86 Assembly, Ruby on Rails, VHDL, Django

Electronics and Architecture

- Multisim, Ultiboard, LabVIEW, HDL Designer

Programming Tools

- PyCharm, Eclipse, Linux Terminal, EMACS, Nano, IDLE, Sublime, Docker, Code Composer Studio, Bootstrap, Git (GitHub/GitLab), Visual Studio, IntelliJ, Code::Blocks, LaTeX

Computer Programs

- Jira, MathCAD, Mathematica, Choregraphe, MATLAB

Operating Systems

- Proactively use Windows and Linux (Ubuntu, Mint, Kali)
- Familiar with Mac OS X

Foreign Language

- Spanish - full professional proficiency
- Bengali - intermediate proficiency

MAJOR PROJECTS

Automated Utility Desk Lamp *Charlottesville, VA*

August 2018-December 2018

Embedded Engineer for Senior Engineering Capstone Project at the University of Virginia.

- Developed a lighting system that is triggered from motion and auto adjusts its brightness based on the ambient lighting present.
- Wrote programs using Embedded C to triggering the LED based on the response given from the developed motion sensor.

Voting System *Charlottesville, VA*

January 2018-May 2018

Source Control Manager and Front-End Developer for Advanced Software Development at the University of Virginia.

- Web application that emulates the Virginia voting system which was developed using Python and the Django framework.
- Managed all Git issues and reviewing and merging pull requests from the team.

Event Sign-up *Charlottesville, VA*

May 2017-June 2017

Full-Stack Developer for Programming Languages for Web Applications at the University of Virginia.

- Web application that allows users to store information like their username and password and sign up for events.
- Developed using the programming languages of HTML, CSS, JavaScript, and PHP and the MySQL database on a LAMP model.

EXTRACURRICULAR ACTIVITIES

Theta Tau (Professional Development Chair), **ULink Peer Advising** (Engineering Advisor), **IEEE** (Academic Chair)