

Chandler L. Cain

clcain@vt.edu <http://clcain.com>

EDUCATION	M.S. Computer Engineering , Virginia Tech Expected graduation: May 2020 (GPA: 3.46)	B.S. Computer Engineering , Virginia Tech (2018) with minor in Computer Science
SKILLS	Specializations: Cybersecurity, Linux/Unix, Cloud Architecture, TCP/IP networking, Web Application Design and APIs, Distributed Systems, Amazon Web Services Programming Languages: Python, JavaScript, Java, C/C++, Bash, HTML/CSS Software: Python/Flask, Node.js, Git, GitHub/GitLab, GitLab CI/CD, Wireshark, RabbitMQ, VirtualBox, Ansible, Chef, Vagrant, OpenVPN, Apache, Redis, Qt, MySQL, FreeRTOS	
PROFESSIONAL EXPERIENCE	Graduate Research Assistant at Virginia Tech (Fall 2018 – Present) <ul style="list-style-type: none">Enhanced the state of cybersecurity education by developing a safe platform for practicing offensive and defensive computer and network securityPerformed research on cloud application security, mesh networks, and authentication Cloud Architecture Engineering Intern at Virginia Cyber Range (Fall 2017 – Summer 2018) <ul style="list-style-type: none">Developed GitLab CI/CD pipelines to deploy software to a cloud environmentDesigned automation tools for provisioning AWS architecture using AnsibleAnalyzed system usage by designing data collection utilities using Python and Grafana Web Applications Engineering Intern at FTS International (Summer 2017) <ul style="list-style-type: none">Architected a satellite data visualization system to be deployed on Amazon AWSDesigned and implemented an HTTP API for data storage using Flask and MongoDBCreated a web application for data visualization using HTML, JavaScript, D3.js and Cesium Software Development Intern at Rackspace (Summer 2016) <ul style="list-style-type: none">Developed Python software to run in a distributed system using Python, Redis, RabbitMQ, and MondoDBImproved spam classification accuracy on the Rackspace Email platform while practicing agile software development and DevOps	
PROJECTS	Lead Developer, Virginia Open Course Platform (Spring 2019 – Present) <ul style="list-style-type: none">Designed and built a cloud platform for data analysis using remote resources Director, VTHacks (2017 – 2018, committee member 2015 – 2017) <ul style="list-style-type: none">Planned event logistics and coordinated with sponsors to support the annual hackathon at Virginia Tech Virginia Tech AMP Lab Executive Committee Member (2017 – 2018) <ul style="list-style-type: none">Initiated a team project to develop a modular and open source platform for home automation and IoT devicesSupported a co-curricular instructional laboratory with the Electrical and Computer Engineering department at Virginia Tech Virginia Tech Secure Embedded Systems Lab IT Manager (Spring 2017) <ul style="list-style-type: none">Installed FPGA analysis software, created documentation on GitHub Wikis, and organized a system for secure remote administration of lab machines	
HONORS & ACTIVITIES	RSA Conference Security Scholar (2019) Virginia Cybersecurity Education Conference (2018) Facebook/CodePath.org Cybersecurity Course Graduate (2018) Virginia Tech Linux and Unix User's Group (2017 – Present) Virginia Tech Cybersecurity Club (2016 – Present) CodeStock Developer Conference (2016) Virginia Tech Student Chapter IEEE (2015 – Present) Virginia Tech Computer Science Community Service Club (2015 – 2016)	