

Charlie Houghton

1720 Chesterbrook Vale Court, McLean, VA
(571) 355-3275 ◊ charliehoughton7@gmail.com

EDUCATION

University of Virginia

BS Computer Science & BA Economics

August 2017 - May 2021 (Expected)

GPA: 3.6

SKILLS

Programming

Java, C++, x86 Assembly, Bash Scripting

Web Development

JavaScript, HTML 5, CCS 3

Cloud Computing Platforms

Google Cloud Platform, AWS

Containerization

Docker, Singularity

Version Control

Git, Subversion

High Performance Computing

Slurm Workload Manager, Grid Computing with Genesis II

WORK EXPERIENCE

Lancium Technology and Services

June 2019 - Present

Intern

- Worked with a new Cloud Computing platform with renewable energy as the primary cost-saving focus. My main tasks included containing arbitrary job execution (substantially reducing our attack surface) and developing a Bash front-end to support high-throughput users who want to run many jobs rapidly. I also researched how to best handle frequent power outages with minimal impact to users.

University of Virginia

February 2019 - Present

Teaching Assistant

- TA for Discrete Mathematics (CS 2102), a class primarily taught with functional proof-assistant language, Lean Prover. I lead review sections and bi-weekly TA sessions. I was very active on our course's forum with 500+ contributions.

Insight Interfaces

May - July 2018

Software Development Intern

- Web-based front-end development and design. Researched, documented, and implemented connectivity and bandwidth optimizations for video streaming. Redesigned some of the existing front-end with UX at the forefront of design decisions.

Bublup

June - August 2015 & 2016

Quality Assurance Intern

- Used JIRA and Excel to discover, document, and coordinate fixes for bugs in a production-level application.

CERTIFICATIONS

CompTIA A+

Hardware and Network Technologies and Troubleshooting

CompTIA Security+

Attacks and Vulnerabilities, Access Management, Risk Management

References available upon request