

# Charlie Houghton

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## EDUCATION

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**University of Virginia**

BS Computer Science & BA Economics

August 2017 - May 2021 (Expected)

GPA: 3.6

## SKILLS

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**Programming**

Java, C++, Python, 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

**Distributed Systems**

Slurm Workload Manager, Grid Computing with Genesis II

## WORK EXPERIENCE

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**Lancium Technology and Services**

June 2019 - Present

*Distributed Systems 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

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**CompTIA A+**

Hardware and Network Technologies and Troubleshooting

**CompTIA Security+**

Attacks and Vulnerabilities, Access Management, Risk Management

References available upon request