Christopher Short

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EDUCATION

WILLIAM & MARY

BS in Computer Science
Graduated May 2020
Williamsburg, VA

LINKS

Github: **github.com/shortc**
LinkedIn: **linkedin.com/in/short-c**
Website: **chrisshort.dev**

SKILLS

LANGUAGES

Comfortable:
Python • C • C++
Familiar:
Java • Bash • Go

TOOLS

Docker • Kubernetes
Traefik • Promeatheus
Vagrant • Redis • Django
Git • Couchbase • Virtualbox
Linux (Arch, Debian flavors)
Ansible • AWS • GCP

ENTERPRISE SOFTWARE

CyberArk

COURSEWORK

UNDERGRADUATE

Algorithms
Data Structures
Operating Systems
Neural Networks
Software Development
Mobile Application Security
Computer and Network Security
Network Systems and Design
Game Design and Development
Finite Automata
Computer Organization
Cryptography
Public Speaking

UNIVERSITY ACTIVITIES

Track & Field/Cross Country
- Full-time student-athlete
- Dedicated **20 hrs/week**

W&M's ACM Chapter
- Member

EXPERIENCE

WILLIAM & MARY IT | *nix Engineering Fellow

May 2018 - May 2020 | Williamsburg, VA

- Created a **URL shortener** web app using **Docker**, **Flask**, **Redis**, and **MySQL** for use by faculty, staff, and students
- Created a web app using **Docker**, **Django**, and **MySQL** to track web services hosted by W&M IT in order to **minimize time spent** on manually tracking web services

SABRE | Software Engineering Intern

May 2019 - Aug 2019 | Southlake, TX

- Created a **Couchbase** monitoring repository using **Python**, similar to Oracle's AWR, to help Sabre response teams identify **Couchbase** cluster, node, and bucket performance in the event of an outage
- Tested **CyberArk Conjur's** ability to integrate with **Ansible** for secrets retrieval in place of KeePass in dev, cert, and prod environments by creating **Anisble** modules
- **Runner up** out of 14 teams of 6 in a business case competition to create a product that Sabre could develop in order to connect social media influencers with travel agencies for marketing purposes
- Functioned as part of an **agile** team with daily standup calls alongside multi-national members in different time zones to complete production-ready tools0

VACO SF | Google Cloud Platform Student Innovator

Fall 2018 – Spring 2019 | Williamsburg, VA

- Planned and organized events on campus around **GCP** products
- **Mentored** fellow students on how to best use **GCP** products through live demos and workshops
- Presented on topics ranging from big data to machine learning with **GCP**

PROJECTS

PERSONAL WEBSITE

Spring 2020

- Used **Traefik v2** to route internal web traffic to different services
- Used **Docker-Compose** to orchestrate containers while keeping system overhead low, compared to K8s, while using **Digital Ocean's** smallest droplet
- Used **Nginx** to serve static pages
- Used **LetsEncrypt** to generate SSL certificates

IT SERVER CONFIGURATION

Fall 2019

- Utilized **Vagrant** with **VirtualBox** as the provider to mirror the Computer Science Department's filer and lab machines for stability testing

OS 161 KERNEL & SHELL DEVELOPMENT

Spring 2019

- Implemented **semaphores** and **mutex locks** in Harvard's OS161 OS
- Created a working, standalone shell in **C**
- Designed and replicated from scratch OS system calls in **C**
- Parsed **MIPS assembly** and hooked into the OS to trace system call paths