

Thomas Park

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Education

Virginia Tech

B.S. Computer Science

GPA: 3.52

Coursework: Data Structures & Algorithms (Java); Computer Systems, Computer Organization (C); GUI Programming (JS); Mobile Software Development (Kotlin, Android); Data Analytics & Visualization (Python); Software Engineering Capstone (in-progress), Database Management Systems (in-progress)

George Mason University

Coursework: Intro to Computer Programming (Python), Essentials of Computer Science

BLACKSBURG, VA

2020 - Expected May 2023

FAIRFAX, VA

2019 - 2020

Experience

Triple Point Security

Cybersecurity Intern

BLACKSBURG, VA (REMOTE)

August 2022 – December 2022

- Wrote and utilized Bash scripts in a series of mini exercises for efficient CLI usage.
- Created and configured virtual machines on AWS (EC2, VPC), Azure, and VMWare.
- Built, tested, and deployed vulnerability scanners using OpenVAS to monitor network security.
- Composed and presented technical document deliverables weekly on what I learned and accomplished.

Projects

GeoTweets

Twitter Tweet Locator

An interactive map that allows you to explore locations of Twitter tweets based on input keyword(s). Winner of "Best Beginner Hack" and "Best Use of MicroStrategy Platforms" at HooHacks 2019. (JavaScript, MicroStrategy Workstation, HTML, CSS)

Web Server

Personal Web and Video Server App

A web server that serves files, streams MP4 video, and provides a simple JWT token-based authentication API. Also briefly containerized and deployed server on K8s cluster using a Dockerfile. (C)

Threadpool

Fork-join Threadpool

A fork-join threadpool with work stealing/helping using pthreads. Allows users to create pool, submit futures to pool, get results of futures in pool, and free futures in pool. (C)

VisualWage

Job Income Visualization

A React app that visualizes job incomes in tabular and graphic form based on user selection. The app synchronizes the visualizations to a selection list of jobs. (JavaScript [React, D3, SVG], HTML, CSS)

Malloc

Memory Allocator

An efficient dynamic memory allocator that uses segregated free lists to maximize utilization and throughput. Supports malloc, free, and realloc function calls. (C)

DataBoys

NFL Data Analysis

A data science project focused on a deeper dive into NFL players. Data pulled from existing data sets or web scraped from sites to create tables and graphs for visualization. (Python [Pandas, BeautifulSoup])

Skills

Languages: Java, C, Python, JavaScript, HTML, CSS

Libraries & Frameworks: React, Node.js, D3.js, Pandas, Beautiful Soup

Tools & Platforms: Git, Linux, Eclipse, AWS, Jupyter Notebook, Microsoft Office

Interests

Activities and Hobbies: Volleyball, Guitar, Hiking, Reading