# **Sterling Cole**

coleprotocol.github.io

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#### Education

Georgia Institute of Technology – Atlanta, GA Fall 2022 (Anticipated) | GPA: 3.44/4.0

University of North Georgia – Dahlonega, GA May 2020 (Transferred) | GPA: 3.81/4.0

## **Relevant Coursework**

Design and Analysis of Algorithms, Systems and Network Design, Data Structures & Algorithms, Intelligent Systems, Introduction to Artificial Intelligence, Programming Languages, Objects and Design, Computer Organization and Programming, Discrete Mathematics, Linear Algebra, Applied Combinatorics

# **Experience**

Technology Intern | Capital One | 06/21 - 08/21

#### Software Engineering Intern | Federal Reserve Bank of Atlanta | 07/20 - Present

- Spearheaded development of Notificator, made for use by the IT Research team as a maintenance and monitoring tool
- Program monitors and adjusts server maintenance scripts based on user input, running on Windows and Linux
- Utilizes an HTML frontend linked to a Python backend to report on the status of server-side scripts and their outputs
- Monitors whether a script executed successfully, produced a favorable result, tracks updates to scripts' code, etc.

## **Programming Intern** | Addiction Resource Systems | 06/19 – 04/20

- Developed Wingman to interface with virtual assistants to form a digital sponsor for recovering addicts
- · Attended meetings within upper level management, and oversaw progress of development roadmaps
- Adjusted relevant training data based on feedback received during beta tests
- Utilized the RASA library of Python, created training data for user input and implemented responses into Wingman

# **Computer Science Tutor** | University of North Georgia | 04/19 – 05/20

- Typically instructed 5-10 students per week with regards to fundamental computer science skills at UNG
- Gave assignment aide, explained various programming concepts, and assisted with test preparation

# **Skills**

## **Proficient Languages**

Java, MATLAB, Python, SQL, HTML/CSS, C

## Familiar Languages

C++, C#, JavaScript, Haskell, Assembly

## **Technologies and Software**

VS Code, Visual Studio, IntelliJ IDEA, Unreal Engine 4, Unity, Amazon Web Services, Git, Arduino, Microsoft Azure, SQL Management Studio, Microsoft Office, Adobe Photoshop CS6, Blender, 3DS Max

# **Projects**

# Hermes | Hackathon | 10/19

- Created an app for tracking reward points for users across various corporate outlets
- Utilized Amazon Web Services Rekognition to track rewards points for user without the need for login credentials
- Implemented database functionality and oversaw integration with Azure

## Portfolio Website | Web Development Project | 05/20 - Present

- Spent the summer of 2020 self-teaching principles of HTML/CSS to create a portfolio website
- Worked to create interactive and engaging space to host personal, academic, and when appropriate, professional work

# Sins of the Prophets | Mod Project | 01/14 - Present

- As design lead, managed the development of a mod for Sins of a Solar Empire based off Microsoft's Halo franchise
- Lead other coders and created its visual effects using game-specific tools and software such as Photoshop
- Made as a community curated experience for 50,000 like-minded community members
- Created a data entry and storage database for Sins of the Prophets using SQL
- Utilized 10 interconnected tables and a Java file scraper to generate to record game information such as unit stats

## **Extracurriculars**

#### HackGT 6 and 7 | Hackathon

- Worked with a team of fellow students from UNG to develop Hermes at HackGT 6, hosted at Georgia Tech
- Oversaw the development of Hermes' SQL database, and attended workshops like "Build Reddit in 2 Hours"
- Learned valuable development practices important to fast-paced development

# Society of Engineering Students | School Club - UNG

- Collaborated with other members of the programming team to calibrate components of the club's rocket
- Communicated with the design team to make appropriate adjustments to the rocket's specifications
- Utilized Arduino devices to record data, manage rocket's functions, and make calculations for the rocket's flight path

#### **Awards and Honors**

AS Computer Science Excellence Award (2019) - UNG Honorable Mention (2019) - HackGT 6 High School Valedictorian (2017) - Westwood Academy

**President's List** (2019-2020 academic year) – UNG **Eagle Scout** (2017) – Boy Scouts of America