Sterling Cole

coleprotocol.github.io

678-988-4948
mr.sterlingcole@gmail.com

github.com/ColeProtocol
/in/sterling-cole/

Education

B.S. in Computer Science | Georgia Institute of Technology   Atlanta, GA | December 2022 (Anticipated) | GPA: 3.42/4.00

Relevant Coursework

Operating Systems design, Perception and Robotics, Design and Analysis of Algorithms, Systems and Network Design, Data Structures & Algorithms, Introduction to Artificial Intelligence, Objects and Design, Discrete Mathematics, Linear Algebra, Applied Combinatorics

Experience

Software Engineering Intern | Capital One | June 2021 – August 2021
- Worked with a team of interns to create a vulnerability tracking suite called Polaris, featuring slack integration
- Uses a series of Python scripts and API calls to track and report vulnerabilities in other software across the company
- Functions with AWS by way of DynamoDB, Lambda functions, and Jenkins for deployment to form an always-on report system
- Worked in an agile environment with weekly sprints, and received training on the paradigms of secure programming

Software Engineering Intern | Federal Reserve Bank of Atlanta | July 2020 – April 2021
- 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 | August 2019 – April 2020
- Developed Wingman to interface with virtual assistants to form a digital sponsor for recovering addicts
- Attended meetings within 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

Skills

Languages

C, Java, Python, SQL, C++, JavaScript, Assembly

Technologies and Software

HTML/CSS, VS Code, Visual Studio, Intellij, Unreal Engine 4, Unity, AWS, Git, Arduino, Azure, SQL Management Studio, Microsoft Office

Projects

RAK App | Georgia Tech Capstone Design Project | August 2021 – May 2022
- Lead a team of other student engineers to work on a mobile application for the 11th airborne division of the U.S. Army
- Developed management skills, mobile development experience, and web development capabilities

Portfolio Website | Web Development Project | August 2020 – 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 | January 2014 – Present
- As design lead, managed the development of a mod for *Sins of a Solar Empire* based off Microsoft's *Halo* franchise
- Project has been officially recognized by Microsoft and has had some of its assets integrated into official material
- Lead other coders and created its visual effects using game-specific tools and software such as Photoshop
- Created a data entry and storage database for the project using SQL with 10 interconnected tables and a Java file scraper

Hermes | Hackathon | October 2019
- 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

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   **President's List** (2019-2020 academic year) – UNG

Honorable Mention (2019) – HackGT 6   **Eagle Scout** (2017) – Boy Scouts of America

High School Valedictorian (2017) – Westwood Academy