Sterling Cole

coleprotocol.github.io

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Education

Georgia Institute of Technology – Atlanta, GA
December 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

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.
- Integrated with a Windows service for automation and self-dependency

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