Sterling Cole

ColeProtocol.github.io

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Skills

Programming Languages	Development Tools
Proficient ● Java, MATLAB, Python, SQL, HTML, CSS Learning ● C++, C#, C, Haskell	Eclipse IDE, Adobe Photoshop CS6, VS Code, Visual Studio, IntelliJ IDEA, Unreal Engine 4, Unity, Amazon Web Services, Git, Arduino, Microsoft Azure, 3DS Max, Blender, SQL Management Studio, Atom IDE

Education

B.S. in Computer Science (in progress)
Georgia Institute of Technology – Atlanta GA
May 2020 - May 2022 (Anticipated)

University of North Georgia – Dahlonega GA
August 2017 - May 2020 (Transferred)
GPA: 3.8/4.0

Relevant Experience

Programming Intern | Addiction Resource Systems
- **Active dates:** 06/19 – 04/20
- **Description:** Co-developed training data for Wingman with the project's design lead. Attended meetings within upper level management, oversaw progress of development roadmaps, and adjusted relevant training data based on beta feedback.

Computer Science Tutor | University of North Georgia
- **Active dates:** 04/19 – 05/20
- **Description:** Taught fellow students fundamental computer science skills at UNG. This included assignment aide, explaining various programming concepts, and assisting with test preparation. Typically instructed 5-10 students per week.

Notable Projects

- **Sins of the Prophets**
  - As design lead, managed the development of a game mod for Sins of a Solar Empire based off Microsoft's Halo game franchise, lead other coders, and created its visual effects. Utilizes originally written scripting and art assets to maintain a community curated experience for 50,000 like-minded community members.

- **SotP SQL Database**
  - Created a data entry and storage database for Sins of the Prophets using SQL. The Database records game information such as unit stats, player characteristics, and other meaningful game data in a SQL environment for ease of retrieval. The project utilized 10 interconnected tables and made use of a Java file scraper to generate insert data and populate the various tables.

- **Wingman**
  - Developed a program capable of interfacing with digital assistants to form a "digital sponsor" for recovering addicts, using the RASA library and, by extension, Python. Wingman, when complete, will be equipped to help those battling addiction overcome cravings and maintain their sobriety. Created training data for user input and implemented proper responses into Wingman.

- **Hermes**
  - Created an app for tracking reward points for users across various corporate outlets, utilizing Amazon Web Services (AWS) Rekognition and Microsoft Azure. As database designer, implemented database functionality and oversaw integration with Azure. Utilizes facial recognition to track and manage the rewards of the user without the need to manage passwords or login information.

Extracurriculars

- **HackGT 6** | 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. Attended workshops, such as "Build Reddit in 2 Hours" and made valuable connections both with peers and industry professionals sponsoring the event.

- **SES (Society of Engineering Students)** | School Club
  - Collaborated with other members of the programming team to calibrate various components of the club's custom designed and built rocket. Made theoretical calculations for the rocket's flight path and communicated with the design team to make appropriate adjustments to the rocket. Utilized Arduino devices to record data and manage the rocket's functions.

Awards and Honors

- **AS Computer Science Excellence Award** (2019) – UNG
  - Selected by faculty and awarded for outstanding performance in Computer Science coursework.

- **Honorable Mention** (2019) – HackGT 6
  - Received honorable mention for Hermes at HackGT 6 by PDI Software.

- **High School Valedictorian** (2017) – Westwood Academy
  - Graduated top of the class at Westwood Academy.

- **President's List** (2019-2020 academic year) – UNG
  - Placed on the President's List for maintaining a 4.0 GPA in the fall semester and showing academic excellence.

- **Eagle Scout** (2017) – BSA
  - Achieved the rank of Eagle Scout in the Boy Scouts of America with Troop 39, awarded for years of dedicated community service and achievement.