James Ellerbee

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EDUCATION

COLUMBUS STATE UNIVERSITY   **Columbus, GA**
B.S. Computer Science | GPA:3.7

PROFESSIONAL EXPERIENCE

TSYS School of Computer Science   **Columbus, GA**
Research Assistant   *Aug 2017 – May 2020*
- Demonstrated use of laboratory equipment and enforce laboratory rules
- Informed students of the procedures for completing and submitting class work, such as lab reports
- Provided assistance to faculty members or staff with laboratory or field research

Star Sigil Studio   **Columbus, GA**
Software Engineer   *May 2018 – Dec 2018*
- Developed a player controller software system using that uses a state machine and linked graph data structures to create a cross platform mobile application
- Utilized dynamic programming to apply code base to multiple use cases
- Devised an object pooling algorithm using the profiler to boost application performance

PROJECTS

Cybersecurity-based-Knowledge-Management-System
- Wrote a front-end using Django view functions
- Queried a Postgres database and rendered information to a webpage
- Used natural language processing to interpret the user's input on the website in order to return the appropriate information from the database

Math Language Application
- Developed application using object oriented principles to facilitate scalability
- Implement a Mathpad feature using JLatexMath library that produces math formatting from provided user input
- Leverages a tree data structure to parse user input to perform Algebra

Virtual Orientation for Columbus State University
- Remotely built the main and river park campuses with team
- Used agile process to work on tasks with team collaboratively
- Programmed quests system using both low-level circuits and high-level commands
- Wrote scripts to automate building tasks

ADDITIONAL SKILLS

- Proficient in C, Python, SQL, noSQL, Java, and Kotlin, JavaScript, HTML, and CSS
- Knowledgeable of the correct way to use version control software such as Git
- Skilled in using the following development environments: Visual Studio, IntelliJ IDEA, PyCham and deploying a web server using Django or NodeJS with REST API on Ubuntu server using NGINX and PM2