Caleb R. Hock

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Objective

To obtain an internship or co-op for the summer/fall of 2021 that will allow me to execute my classroom learnings and broaden my knowledge in the software development industry

Education

Missouri University of Science and Technology (Missouri S&T)   Dec 2021
B.S. **Computer Science** | Minors **Computer Engineering** and **Mathematics**   **GPA: 4.0 / 4.0**

Projects

D&D Character Creator Website
- Created a D&D character creator website that allowed users to create and customize characters live
- Developed user-database interactions in python that kept track of user modifications to characters
- Built a custom SQL scheme for the database that contained all the elements of a D&D character
- Designed the user interface for the website using custom HTML and CSS

Residential Life Discord Bot
- Constructed a bot that allowed users to execute commands which interacted with the Residential Life duty server, backend database, and other Discord users
- Created and maintained a SQL database to store user information and duty schedules
- Integrated Discord API within python code to manage user permissions, roles, and duty scheduling through custom commands the user had access to execute

Experience

Missouri S&T Rocket Design Team   Rolla, MO
Electronics Team Project Lead   Aug 2018 – Present
- Constructed the ground station using Raspberry Pis which tracked and displayed data involving the rocket's trajectory, altitude, temperature, etc.
- Designed a temperature monitoring system for the rocket test stand using thermocouples, single board computers, and a custom python program

Missouri S&T Residential Life   Rolla, MO
Senior Resident Assistant   Mar 2020 – Present
- Mentored a group of 2-3 RAs, focusing on leadership develop, academic success, and community building
- Facilitated weekly leadership development trainings for a group of 16 RAs in collaboration with 5 SRAs

Resident Assistant   May 2019 – Mar 2020
- Created intentional active and passive programming primarily focused on academic, personal, and professional development utilizing the residential curriculum
- Collaborated with a team of 20 staff members to complete daily, biweekly, and monthly administrative tasks for 9 university buildings and 760 residents
- Attended regular development trainings to adequately provide mentorship for 35 students

Skills

Classes	Data Mining, Operating Systems, Software Engineering, Algorithms, Databases, Data Structures
Programming	Python, C++, Java, HTML, CSS
Tools	Git, SQL, Weka, Unity Game Engine, Microsoft Office Suite