CONNOR GOODALL

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https://connor-goodall.github.io/

EDUCATION

UNIVERSITY OF VIRGINIA   Charlottesville, VA
Bachelor of Science   May 2023
Major in Computer Science
Cumulative GPA: 3.59/4.0; Major GPA: 3.72/4.0
Relevant Coursework: Advanced Software Development Techniques; Database Systems; Algorithms; Software Testing; Machine
    Learning; Cloud Computing; Internet of Things

SKILLS

- **Languages & Frameworks**: Python, Django, HyperText Markup Language (HTML), Cascading Style Sheets (CSS), Hypertext Preprocessor (PHP), Java, Structured Query Language (SQL), C, C++, R, C#, PHP Data Objects (PDO)
- **Environments & Software:** Git/Github, Bootstrap, MySQL, Selenium, Amazon Web Services (AWS), SQLite, Zephyr, nRF Connect

PROJECTS

COMICS UNIVERSAL *(Python, Django, HTML, Bootstrap, CSS)*   Dec 2022 - Jan 2023
Software Developer
- Designed a wiki website that contains the biography, appearance, occupation, and connections on many different comic book characters that users can edit
- Managed, oversaw, and integrated user information and the comic book character's information in a central database on a MySQL server
- Gathered and compiled information for each comic book character from the Superhero Application Programming Interface (API) on Github
- Automated user interaction with Selenium for functional testing

GYM CHECKOUT SYSTEM *(C, Zephyr, nRF Connect)*   Feb 2023 - May 2023
IoT Developer
- Lead a team to create a simulated gym checkout system with two nRF52840 DKs and a NFC tag that allows customers to be put into a queue to use the gym equipment
- Applied BLE (Bluetooth Light Energy) from the Zephyr OS (Operating System) to connect, disconnect, and send notifications about the customer's position in the queue to the customer's phone
- Utilized a queue data structure to place, move, and remove customers from the queue
- Collaborated with the nRF Connect framework to run the gym checkout system

CLUB HUB *(PHP, PDO, HTML, Bootstrap, SQL, CSS)*   Feb 2023 - April 2023
Software Developer
- Created a website that allows UVA students and faculty to join and create clubs on campus, as well as stay up-to-date about the clubs that they are interested in
- Stored club information, student information, and faculty information in a central database on a MySQL server
- Accessed the MySQL database in PHP with the PDO framework and SQL

CRIME DETECTOR *(Python)*   Sept 2022 - Dec 2022
Machine Learning Engineer
- Developed algorithms that predict the likelihood of being a victim of a violent or non-violent crime in a particular area of the city of Charlottesville, VA
- Trained many different regression models and hyper-tuned the parameters for each of these regression models in order to find the best model for our algorithm
- Feature engineered GPS coordinates for each crime given the street address to visualize actual and predicted data
- Feature engineered the violent crime category and the non-violent crime category in order to compute the violent crime rate and the non-violent crime rate