

Jason R. Carrete

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Education **Drexel University** Philadelphia, PA
B.S. in Computer Science Expected Graduation: June 2021
Software Development Cumulative GPA: **4.0**

Skills

Languages: JavaScript, Python, C/C++, Java, Lua, Racket, HTML/CSS
Tools: Git, Bash, npm, Vim, CMake, Makefile, Gradle
Technologies: React, SQL, Apache
Environments: MacOS, Windows, Arch, Ubuntu, Arduino, AVR

Experience **Website Manager** Philadelphia, PA
Drexel IEEE Mar. 2019 - Present

- Designed the website for the Drexel DragonHacks hackathon
- Rewrote the entire Drexel DragonHacks website using ReactJS
- Managed a GitHub repository to promote collaboration on the website

System Administrator Philadelphia, PA
Drexel TechServ Oct. 2018 - Present

- Organized website and network infrastructure for TechServ
- Resolved technical issues with people in need of help with their electronic devices
- Refurbished donated computer hardware to be reused by those who request it
- Mentored new members on how to properly handle personal data on donated HDDs

Projects **VOICE – Grand Prize at DragonHacks 2019 Hackathon**

Voice Operated Interactive Command Emulator

- Enables control of the host computer through configurable voice commands
- Utilized the Google Speech-to-text API to parse human speech
- Used PyAudio library to stream audio from the host computer's microphone
- Managed dependencies and run scripts with Pipenv

Battleship

A battleship board game implementation

- Utilized JavaFX graphics libraries to design the GUI
- Worked with the Gradle build system to manage deployment and dependencies
- Implemented a custom network protocol for multiplayer support

Simon Says

A simon says game implementation

- Designed a circuit schematic for a simon says game
- Implemented the game logic using Arduino and C/C++
- Tested the game to ensure similar gameplay to the original

Organizations

Drexel IEEE – Drexel IEEE Chapter – Website Manger – Aug. 2018 - Present
dLab – Drexel Design Thinkers and Makers – Member – Aug. 2018 - Present
Drexel CyberDragons – Drexel Cyber Security Org. – Member – Aug. 2018 - Present