

Jason R. Carrete

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Howell, NJ 07731
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Education **Drexel University** Philadelphia, PA
B.S. Computer Science Expected Graduation: June 2021
Minor in Electrical Engineering Cumulative GPA: 4.0

Skills

Languages: Python, C, JavaScript, MATLAB, SQL, Java, Go, Lua
Tools: Git, Bash, npm/yarn, CMake, Makefile, Gradle
Technologies: React, GStreamer, Tensorflow
Platforms: Linux, MacOS, Arduino, AVR, Windows

Experience **Software Engineer** Philadelphia, PA
Comcast Labs Sept. 2019 - June 2020

- Presented projects to Comcast executives
- Upgraded and maintained multithreaded applications in Python
- Used GStreamer to manipulate multimedia data
- Trained a convolutional neural network for object detection
- Worked with specialty hardware systems to perform machine learning inferencing

Website Manager Philadelphia, PA
Drexel IEEE Mar. 2019 - June 2020

- Designed the website for the Drexel DragonHacks 2019 hackathon
- Rewrote the entire Drexel DragonHacks website using ReactJS
- Managed a GitHub organization to promote collaboration on the website

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

Browser Basics – Comcast Internet Essentials Challenge Winner

A browser extension to help users navigate safely on the web

- Utilized the chrome extension toolkit to create a chrome extension
- Organized tasks that needed to be completed amongst team members
- Implemented a system to check for insecure websites and alert the user

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 TechServ – Drexel Computer Refurbishment. – Website Dev – Aug. 2018 - Present
Drexel IEEE – Drexel IEEE Chapter – Website Manager – Aug. 2018 - June 2020