

# Jason R. Carrete

<https://jasonrcarrete.me>  
jasoncarrete5@gmail.com

Howell, NJ 07731  
(732) 503-3658

---

<b>Education</b>	<b>Drexel University</b> <i>B.S. Computer Science   Minor Electrical Engineering</i> Software Development	Philadelphia, PA Expected Graduation: June 2021 Cumulative GPA: 4.0
------------------	---	---

---

<b>Skills</b>	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
---------------	---

---

<b>Experience</b>	<b>Software Engineer</b> <i>Comcast Labs</i> – 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	Philadelphia, PA Sept. 2019 - June 2020
	<b>Website Manager</b> <i>Drexel IEEE</i> – 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	Philadelphia, PA Mar. 2019 - June 2020

---

<b>Projects</b>	<b>VOICE – Grand Prize at DragonHacks 2019 Hackathon</b> <i>Voice Operated Interactive Command Emulator</i> – 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
	<b>Browser Basics – Comcast Internet Essentials Challenge Winner</b> <i>A browser extension to help users navigate safely on the web</i> – 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
	<b>Simon Says</b> <i>A simon says game implementation</i> – 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