

# Sebastian Rodriguez

sebrod.com | rodriguez.o.sebas@gmail.com | 954.856.4903

## EDUCATION

### CARNEGIE MELLON

Grad. May 2020 | Pittsburgh, PA  
**BS IN TECHNOLOGY AND SONIC  
 PRODUCT INNOVATION**  
 (STUDENT DEFINED MAJOR)  
 BUSINESS ADMINISTRATION MINOR

### SAINT THOMAS HIGH SCHOOL

Grad. May 2015 | Ft. Lauderdale, FL

## LINKS

LinkedIn:// [sebastianorodriguez](#)  
 Github:// [sebastian-o-rodriguez](#)  
 Facebook:// [sebasorod](#)  
 Instagram:// [whodatseb](#)  
 YouTube:// [srodriguez3825](#)  
 Soundcloud:// [rodriguez-o-sebas](#)

## COURSEWORK

### UNDERGRADUATE

Multimedia Processing for the Arts  
 Computer Music  
 Fundamentals of Programming and  
 Computer Science  
 Principles of Imperative Computation  
 Graphic Media Managment  
 Parallel Distributed Processing  
 Funding Entrepreneurial Ventures  
 Practical Data Science

## SKILLS

### PROGRAMMING

Over 5000 lines:  
 MAX MSP • Python • HTML

Over 2000 lines:  
 CSS • C • Nyquist SAL • Bash • Java •  
 Jupyter Notebook • Anaconda • Object  
 Oriented Programming

Familiar:

SQLite • Pandas • Numpy •  $\text{\LaTeX}$  •  
 JavaScript • Shell • TKinter

## EXPERIENCE

### FREELANCE WEB DEVELOPMENT | WEB AND UI DESIGNER

May 2020 - Present | Ft. Lauderdale, FL

- Working with TC-Flags International to build and design website for their emerging division, Nybex Medical Equipment Leasing and Financing, as well as leading establishment of online presence.
- Working with some friends to launch a clothing brand, simply as creative outlet and intriguing venture. Leading the overall technological deployment, and specifically building and designing ecommerce site.
- Deployment of my profile site, [sebrod.com](#). Hosted using Github Pages.

### FLAGS - TC INTERNATIONAL | INTERN

May 2019 – August 2019 | Port of Spain, TT

- On team tasked with updating file management system. After digitization, we implemented eFileCabinet to manage documents and improve accessibility.
- Worked with subdivision Complete Storage Solutions, focusing on record keeping, updating the database from excel and physical records to a more robust and easily accessible database format, Totall Recall Software.
- Improved employees' interactions with technology to increase productivity, primarily by writing Excel VBA macros into easy-to-use interfaces.

### ULTIMATE FLOORING | FLOORING CONTRACTOR

May 2018 - Aug 2018 | Palm Beach, FL

- Worked as member of floor installation crew, where we removed homeowner flooring of any type, and meticulously installed tiles, carpets, laminate, vinyl, and hardwood flooring, all to customer satisfaction.

## RESEARCH

### SIMPLE SOUND | SOFTWARE DEVELOPER

December 2019 – May 2020 | Pittsburgh, PA

Worked with **Prof Annie Hui-Hsin Hsieh** and **Prof Lance LaDuke** to create **Simple Sound**, a software written in **MAX MSP**. Simple Sound fits in the space between a digital audio workstation and a sampler, and is a different approach to making music.

### NEURAL NETWORKS FOR MUSIC | RESEARCHER

Mar 2019 – May 2019 | Pittsburgh, PA

Studying under **Prof David Plaut**, used Light Efficient Network Simulator **LENS** to study the **Music Playlist Generation** using Feed Forward and Recurrent Neural Networks.

### COMPOSING MUSIC WITH PROGRAMMING | AUDIO PROGRAMMER

Nov 2019 – Dec 2019 | Pittsburgh, PA

Studying under Audacity co-creator **Prof Roger Dannenberg** and **Prof Jesse Stiles**, created a **melody** using only **Nyquist** a language for composition and sound sythesis, and is the language that powers the aforementioned software Audacity.

### DATA SCIENCE WITH MUSIC | RESEARCHER

Sept 2019 – Oct 2019 | Pittsburgh, PA

Studying under **Prof Zico Kolter**, created a tutorial that introduces the basic methods in gathering, processing, and interpreting song data in **Jupyter Notebook**. This **tutorial** walks through taking in a CSV dataset, converting to several data types, and using numerous libraries to analyze and visualize music preference.