

Sebastian Rodriguez

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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
 Parallel Distributed Processing
 Practical Data Science
 Graphic Media Management
 Intermediate Microeconomics
 Intermediate Macroeconomics
 Funding Entrepreneurial Ventures
 Business Communications
 Business Presentations
 Marketing I
 Operations Management

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 • \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, Total 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 synthesis, 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.