Sebastian Rodriguez

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EDUCATION

CARNEGIE MELLON UNI.
Grad. May 2020 | Pittsburgh, PA
BS in Technology and Sonic Product Innovation (Student Defined Major)
Business Administration Minor

ST. THOMAS AQUINAS HIGH SCHOOL
Grad. May 2015 | Davie, FL

COURSEWORK

UNDERGRADUATE
Fundamentals of Programming and Computer Science
Principles of Imperative Computation
Parallel Distributed Processing
Multimedia Processing for the Arts
Computer Music
Practical Data Science

Graphic Media Management
Intermediate Microeconomics
Intermerdiate 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

FLAGS - TC INTERNATIONAL | Intern
May 2019 – August 2019 | Port of Spain, TT

- Teamleader tasked with updating and digitizing file management system for real estate operations. Lead the transition from paper files to project management software, improving efficiency and aiding retrieval.
- Worked with subsidiary Complete Storage Solutions, managing upkeep of Total Recall Software, a software for storing and organizing proprietary records that cannot be digitized.
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RESEARCH

SIMPLE SOUND | Creator
December 2019 – May 2020 | Pittsburgh, PA
Created Simple Sound software, a software written in **MAX MSP**, intent to make a music creation software that is more intuitive and easy to use. Simple Sound fits in the space between a digital audio workstation and sampler, and is a different approach to making music. My work was assisted by **Prof Annie Hui-Hsin Hsieh** and **Prof Lance LaDuke**.

COMPOSING MUSIC WITH PROGRAMMING | audio programmer
Nov 2019 – Dec 2019 | Pittsburgh, PA
Studying under Audacity creator **Prof Roger Dannenberg** and **Prof Jesse Stiles**, I created a melody using **Nyquist IDE**, a signal processing software software that uses the XLISP coding language.

DATA SCIENCE WITH MUSIC | researcher
Sept 2019 – Oct 2019 | Pittsburgh, PA
I create a Python walkthrough that introduces methods in gathering, processing, and interpreting song data. This online notebook walks through the steps for taking in a dataset, converting to several data types, and using numerous libraries to analyze and visualize music preference.

NEURAL NETWORKS FOR MUSIC | Researcher
Mar 2019 – May 2019 | Pittsburgh, PA
I use Light Efficient Network Simulator **LENS** to study Music Playlist Generation, assisted by **Prof David Plaut**. Using numerous neural networks as the primary machine learning model, I was able to discover some insights into generating playlists specified to a user's musical preference.

INTERESTS

When I'm not working on a cool side project or making music, I'm probably hitting a backside 180 at the local skatepark and sipping on a few craft brews. I read Hemingway and Virginia Woolf novels in my downtime.