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
Proficient:
MAX MSP • Python • HTML
CSS • C • Nyquist SAL • Bash • Java •

Jupyter Notebook • Anaconda • Object Oriented Programming

SQLite • Pandas • Numpy • LaTeX •
JavaScript • Shell • TKinter

SKILL TITLE
Leadership • Teamwork • Time Management
Design Thinking • Technical Research • Prose
Critical Thinking • Reading • Organization

EXPERIENCE

PELOTON INTERACTIVE, INC. | Sales Specialist
October 2020 – January 2020 | Pittsburgh, PA
- Propelled honing of team and customer-facing communicative practices.
- Integrated improved salesforce tactics within the Peloton Pittsburgh Showroom on a collaborative and focused team.
- Diligent in adapting in-person communication to diverse customer demographics.

FLAGS - TC INTERNATIONAL | Intern
May 2019 – August 2019 | Port of Spain, TT
- Propelled team tasked with updating and digitizing file management system for real estate operations.
- Worked in self-storage management, spearheading upkeep of the company's software for storing and organizing proprietary physical records.
- Collaborated on as many as to 4 large-scale projects at once. Roles included, but not limited to: interdepartmental communication, timeline management and oversight, as well as widget creation efficient software use.

RESEARCH

SIMPLE SOUND | Creator
December 2019 – May 2020 | Pittsburgh, PA
- Invented a music creation software designed for all ages, roughly 5-80.
- Specialized in all aspects of creation, such as design, marketing, programming, and artistry.
- Assisted by **Prof Annie Hui-Hsin Hsieh** and **Prof Lance LaDuke** of Carnegie Mellon University.

COMPOSING COMPUTER MUSIC | Audio Programmer
Nov 2019 – Dec 2019 | Pittsburgh, PA
- Studied under Audacity creator **Prof Roger Dannenberg** and **Prof Jesse Stiles**.
- Honed programming skills via use of **Nyquist IDE**, a signal processing software.
- Cultivated both analytical and creative skill sets.

DATA SCIENCE WITH MUSIC | Researcher
Sept 2019 – Oct 2019 | Pittsburgh, PA
- Fabricated an intuitive walk-through explaining the methods used in gathering, processing, and interpreting data.
- Coded the demonstration in a Jupyter Notebook using Python, creating an easy-to-understand execution of analyzing data (in this case, music).
- Produced content in palatable syntax paired with intuitive visuals.

NEURAL NETWORKS FOR MUSIC | Researcher
Mar 2019 – May 2019 | Pittsburgh, PA
- Orchestrated training and testing of simple and complex neural networks using Light Efficient Network Simulator **LENS**.
- Implemented models for generating personalized playlists based on a person's music preferences.
- Expanded on research of generative neural networks in collaboration with **Prof David Plaut**.

INTERESTS
When I'm not working on a cool side project or experimenting with music, I'm either skating with friends or diving headfirst into Stephen Crane novels or Whitman poems.