ROBERT SCALES

610-427-9675 • PHILADELPHIA, PA • RHS58@DREXEL.EDU

RELEVANT SKILLS

GPA 3.19

Coding Languages: Python, C, C#, C++, MATLAB, Java, Processing (+Intro level css,html, Javascript)
Software: Visual Studio, Github, Vim, Git ages, Tkninter, OpenCV, Microsoft Office Suites, Abobe Suites
Languages: English, Spanish

WORK EXPERIENCE

SOFTWARE DEVELOPER (PYTHON, ADOBE INDESIGN)

Metropolitan Acoustics
September 2019 - February 2020

- Developed excel data consolidation software and user interface in python using Tkinter libraries
- Streamlined implementation of Tkinter UI elements by writing a functional python library
- Performed graphic design tasks in Adobe Suites following company's branding

STUDENT RESEARCHER ON MAGNETIC RESONANCE PIANO (MAX MSP)

ExCITe Center
February - August 2020

- Studied Max msp and Puredata documentation
- Independently researched digital audio and waveform manipulation for application in the MRP
- Attended weekly meetings concerning music technology and machine learning methods

PROJECTS

XYLOPHONE PLAYING CAT ANIMATRONIC (ARDUINO)

Hardware and Scripting, 2019

- Worked in scheduled phases of development and prototyping on a 4-person team
- Wrote Arduino code to translate strings of notes into mechanical motion
- Developed pseudocode to communicate with non-technical audiences

https://du2019-grp073-5.blogspot.com/

48-HOUR STAY SAFE JAM 2020 - SPREAD LOVE (C#, UNITY)

Modelling, Scripting, Animation, Music, 2020

- Independently learned C# scripting using online resources
- Created update patches from user feedback after initial release
- Ported to android with updated UI

https://rscales.itch.io/spreadlove

COURSEWORK

- Advanced Programming for Engineers (C)
- Linear Engineering Systems
- Electric Circuits
- Design With Microcontrollers
- Programming for Engineers (Python)
- Discrete Mathematics
- Digital Logic Design
- Neuropsychology

ORGANIZATIONS

Drexel AI
Drexel Artificial Intelligence

DUXR
Drexel University Extended Reality Club (VR/AR)

AES
Audio Engineering Society

ALPFA
Association of Latino Professionals for America

SHPE
Society for Hispanic Professional Engineers

LUC
Latinos for a United Campus