



Nathan Erthal

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EDUCATION: Florida International University, Miami, Florida
B.S. in Computer Science
Expected graduation date: December 2020

Skills:

Native Proficiency in English and Portuguese. Working Proficiency in Spanish.

Proficient in: Java, Javascript, C, C++, Python, HTML, CSS, Vue, SQL, Prolog, F#, Microsoft Office, Logic Pro

Courses Taken:

Programming (1, 2, 3), Net-Centric Computing, Software Engineering, Calculus(1, 2), Algorithms, Statistics, Physics, Logic, Computer Organization, Operating Systems. Database, Data Structures

EXPERIENCE:

Intelligent BIM Virtual Assistant (Senior Project FIU) (August 2020 - Present)

- Web app to facilitate workflow for construction companies, built on Vue.js and Express.js
- Renders navigable 2D/3D models with Autodesk Forge API
- Features a virtual assistant using Google Dialogflow API for speech & text queries

DoesItBump.ai (at Swampacks UF) (January 2020)

- Mobile app that tracks a user's movement and facial expressions using pythoncv
- Determines if user has positive reactions to songs

Gain Knob (at Self Employed) (December 2019)

- Virtual plugin compatible with every DAW using C++ and JUCE framework
- Increases/decreases the gain from an input audio signal

Skin.ai (at Shellhacks FIU) (September 2019)

- Mobile app using Core.ml which analyzes a photo of a mole
- Gives a probability of mole being malignant (with up to 86% accuracy)

Audio Engineer/ Producer (at Self Employed Studio) (2018 - Present)

- Recorded, produced, mixed and mastered records
- Delivered records to artists as material for demo projects and publishable content