

Connor Dupuis

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Education

University of Florida - College of Engineering
BS Computer Engineering
Graduation: Fall 2021
GPA: 3.67

Relevant Coursework

Data Structures and Algorithms	Machine Learning	Database Systems
Microprocessor Applications	Digital Logic	Operating Systems
Software Engineering	Digital Design	Data Science

Skills

Programming Languages – *Proficient*: C++, C, Python, JavaScript | *Familiar*: SQL, Java, Flutter, VHDL

Operating Systems – Windows, MacOS, Linux

Experience

Raymond James – *Development Intern*

June 2021 – August 2021

- Developed automated data collection and processing tools to generate reporting analytics
- Created queries and dashboards within ServiceNow for efficient data consumption
- Increased my team's sprint story throughput by 35% by effectively servicing issues and creating automated tools

NASA – *L'SPACE Mission Concept Academy Scholar*

May 2021 – August 2021

- Conceptualized and designed a payload with intent to detect water on the surface and subsurface of the Permanently Shadowed Regions at the lunar South Pole.
- Plans to use ground penetrating radar and a passive neutron spectrometer
- Initiated concept generation of orbital planning and payload instruments

Raymond James – *Development Intern*

June 2020 – July 2020

- Began development of Natural Language Understanding chatbot to increase internal IT ticket turnaround time
- Serviced numerous internal IT tickets which were then used as data for the NLU chatbot

Projects

Pastebles – *Undergraduate Research*

August 2021 – January 2022

- Created modular wearable technology that utilizes ML, microcontrollers, and an sensors to predict current action (ie. bicep curls, side lunges, sitting, etc.)
- Used TensorFlow to create and train a model which is then hosted on a ESP32 microcontroller
- Developed software that allows the ESP32 and sensors to communicate and make inference about the incoming data

Rapid Model Predictor – *Undergraduate Research*

August 2021 – January 2022

- Developed an artificial neural network to predict single-fiber response to stimulation that bypasses the need for computational and time expensive simulations that are required for accurate Deep Brain Stimulation
- Simulated the neural response to electrical stimulation using cable-models of myelinated axons
- Modeled a deep brain stimulation electrode and surrounding neural tissue using finite element analysis software
- Utilized TensorFlow and HiperGator (UF's supercomputer) for parallel data generation and model training

Next Generation UI – *School Project*

August 2020 – May 2021

- Worked with Raytheon to develop a new front-end dashboard to query and display any type of document or file from their internal database system
- Added and improved functionality from the end-of-life flash dashboard that was currently in use

Scanned LLC – *County Competition*

September 2016 – December 2019

- Developed the IOS, Android, and Web apps to support 750+ users
- Won \$10,000 and first place in the Next Generation Tech startup competition
- Accepted into the Gator Hatchery at the University of Florida