Sabrina Snider

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EDUCATION

University of Florida, ***Gainesville, FL*** **Grad Date: May 2022**

Bachelor of Science in Computer Science **GPA: 3.96/4.0**

University Honors Program

Technical Skills: Java, C++, Python, HTML/CSS, Javascript, SQL, R, MIPS

Tools: Node, React, Express, MongoDB, Git, Pandas, Numpy, Plotly, matplotlib, TensorFlow, regex, Agile

Relevant Coursework: Data Structures, Software Engineering, Computer Organization, Linear Algebra, Statistics, Programming 1+2

PROFESSIONAL EXPERIENCE

Programming 1 Teaching Assistant **August 2019 – Present**

University of Florida, *Gainesville, FL*

- Mentored a class of 600 students in **Java** on fundamental programming concepts, including object-oriented programming, inheritance, and polymorphism.
- Led two 20-student lab sections and hosted weekly office hours to directly mentor students and help debug code.

Research Assistant **November 2018 – September 2019**

Li Lab, *Gainesville, FL*

- Training to do machine learning research in the Li Lab, which is a lab focusing on deep neural networks in robotics and computer vision using **python** with the **PyTorch** library

Data Analytics Intern **May 2019 – August 2019**

InfoTech, *Gainesville, FL*

- Developed a **python** dashboard with **Plotly** and **pandas** to display company statistics on product usage and to improve marketing information.
- Designed the front-end of a **dash** application using **HTML** and **CSS**, including implementing a responsive web design.
- Queried and analyzed website search logs with **python**, **pandas**, **regex**, and **Plotly** to determine filtering improvements.

Research and Development Intern **June 2018 – August 2018**

Medtronic, *Jacksonville, FL*

- Improved wireless communication accuracy by determining that a Bluetooth protocol was more reliable than the current protocol via comparing missed data frames during communication testing.
- Assembled multiple breadboard circuits and used an oscilloscope to validate impedance measurements on PCBs.

PROJECTS

UF Neurosurgery Webpage **April 2020**

- Used the MERN web stack to develop an appointment management page where clients and staff can view, schedule, and cancel appointments from a MongoDB database.
- Integrated multiple Google APIs to display auto-generated route navigation to the hospital, with autocompletion in the location input box and a live map displaying the route

Minesweeper Rewrite **March 2019**

- Rewrote the game Minesweeper in C++ using the SFML library to generate the user interface and manage image sprites.
- Implemented a recursive algorithm to reveal blank tiles and end the game, if applicable.

Boston Housing Neural Network **March 2018**

github.com/SabrinaSnider/TF-Essay

- Used **python** and the **TensorFlow** API to write an artificial neural network trained on a Boston housing dataset.
- Analyzed trends of overfitting as the neural network length and layer size changed, discussing the role of signal and noise.

LEADERSHIP

Secretary **August 2019 – Present**

Women in Computer Science and Engineering (WiCSE), *University of Florida*

- Helped setup computer science events for the 50-student club, including booking rooms, ordering food, and sending weekly update emails.

Social Chair **August 2018 – May 2019**

Society of Women Engineers, *University of Florida*

- Planned and directed over 12 social events throughout the year to promote club visibility and student involvement.
- Developed an event itinerary, coordinated transportation, and communicated event information to the over 150 members.