McNels Sylvestre

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EDUCATION

Florida Institute of Technology <div align="right">**Melbourne, FL**</div>
B.S. Software Engineering | GPA: 3.69/4.0 <div align="right">*Intended Grad: May 2019*</div>

Relevant Coursework: Software Requirements, Software Metrics and Models, Software Design Methods, Linear Algebra, Operating Systems, Computer Networks, Human Factors, Discrete Mathematics, Probability and Statistics, Data Structures and Algorithms
Involvement: ACM PR Officer, CS Help Desk, MLH Local Hack Day Organizer, ICPC volunteer
Honors: Phi Kappa Phi, Phi Eta Sigma (Webmaster), Tau Beta Pi (Secretary), Upsilon Pi Epsilon, Dean's List (every semester), Outstanding Senior in Software Engineering

SKILLS & INTERESTS

Technical
C++, HTML, CSS, JavaScript, Java, Git, Firebase, Ruby, Python, Bash, MySQL, Linux, Windows, macOS, Terminal, Swift, XCode, APIs, JSON, Adobe XD

Soft Skills
Technical Documentation, Effective Communication, Teamwork, Problem-solving, Time Management, Customer Service, Technical Support, Fast Learning

Spoken Languages
English, French, Spanish, Haitian Creole

Interests
Information Security, Data Visualization, Neuroscience, Embedded Systems, Human-Centered Design, App Development, Sports, Music

WORK EXPERIENCE

Florida Institute of Technology <div align="right">**Melbourne, FL**</div>
Research Assistant - Wireless Communications and Networking Lab <div align="right">*Feb 2019 - Present*</div>
- Apply machine learning techniques for systems event classification and anomaly detection
- Analyze large message-based datasets in Python with pandas, matplotlib, scipy and sklearn libraries

Grader/Teaching Assistant – College of Engineering & Science <div align="right">*Jan 2019 - Present*</div>
- Prepare evaluation materials for a class of 50 students
- Review, correct, and grade homework submitted by students in Operating Systems Concepts course (CSE4001)

LMS Support Assistant – Continuing Education Department <div align="right">*May 2017 - Feb 2019*</div>
- Responded to student questions via email, troubleshoot and logged issues in Salesforce
- Prepared reports utilizing survey data to meet accreditation requirements
- Assisted with the preparation and improved maintenance of the Learning Management System (LMS) used for online courses with HTML, CSS and JavaScript
- Automated existing processes to improve user experience with Ruby scripts and Canvas LMS API

PROJECTS

Form Buster - Senior Project <div align="right">*Sep. 2018 – Present*</div>
- Involved in writing Requirements, Design and Test documents for the project
- Implemented an authentication system (email and password) for the website using Firebase
- Designed and contributed to the implementation of a NoSQL database to hold user information
- Interacted with the university's API to improve user experience using HTML/CSS and JavaScript

OS161 - Operating Systems Course <div align="right">*Jan 2018 – Apr 2018*</div>
- Added various system calls to the BSD-like operating system using C
- Implemented a scheduler to provide control over the execution of the different running processes
- Implemented a fork system call from scratch to use memory more efficiently

AutoSAD - Continuing Education at Florida Tech <div align="right">*Oct 2017 – Mar 2018*</div>
- Pulled students page views activity during tests from Canvas API using HTTP requests and generated automatic reports for all students taking online courses
- Automated existing academic honesty check system for Florida Tech's Continuing Education Dept. and improved its efficiency by 80%
- Installed and setup script on a Linux VM to increase security and ease of use

ingine - iOS Application/Startup <div align="right">*Feb 2017 - Present*</div>
- Created requirements, design and test documents for mobile AR application and databases
- Drafted business plans, revenue models, and communicated with investors and collaborators
- Built iOS prototype app that calculates the similarity between two user-provided images using ARKit and Clarifai