McNels Sylvestre

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EDUCATION

Florida Institute of Technology   **Melbourne, FL**
B.S. Software Engineering, Cum Laude   *Graduation: May 2019*
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
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, Outstanding Representative of the Capstone Class

SKILLS & INTERESTS

Languages: C++, Python, HTML, CSS, JavaScript, Java, Ruby, Swift
Platforms: Linux, Windows, iOS, macOS
Tools/Frameworks: Git, Firebase, XCode, Eclipse, Adobe XD, JetBrains IDEs, ARKit, Jenkins, Docker, VirtualBox, Terminal, JIRA, Confluence, BitBucket, Wireshark
Concepts: REST APIs, Agile Methodologies, UX testing, Augmented Reality, Containerization, CI/CD
Verbal: English, French, Spanish, Haitian Creole
Interests: Information Security, Networking, Embedded Systems, Data Visualization, App Development, IoT, Human-Centered Design, Neuroscience, Sports, Music

EXPERIENCE

Alstom   **Melbourne, FL**
Software Engineer   *June 2019 - Aug 2019*
- Participated in requirements gathering, code and design reviews, issue tracking and daily scrum meetings
- Programmed sockets to listen for data coming from embedded devices and sniffed packets using Wireshark
- Built multithreaded application that decompressed, parsed and validated data to be used by Analytics team
- Configured, integrated and deployed apps on embedded devices in the field remotely using Docker

Florida Institute of Technology   **Melbourne, FL**
Research Assistant - Dept. of Computer Engineering and Sciences   *Feb 2019 - May 2019*
- Applied hierarchical clustering to a large dataset for systems event classification and anomaly detection
- Analyzed large message-based datasets in Python with pandas, matplotlib, scipy and sklearn libraries
- Compared common machine learning techniques and algorithms used in event classification and cluster correlation

Teaching Assistant – Dept. of Computer Engineering and Sciences   *Jan 2019 - May 2019*
- Prepared evaluation materials for a class of 50 students
- Reviewed, corrected, and graded homework submitted by students in Operating Systems Concepts course

LMS Support Assistant – Continuing Education Department   *May 2017 - Feb 2019*
- Responded to student questions via email, troubleshot and logged issues in Salesforce
- Prepared reports utilizing survey data to meet accreditation requirements
- Improved front-end look of the LMS used for online courses using HTML, CSS and JavaScript
- Automated existing processes to improve user experience with Ruby scripts and Canvas LMS API

PROJECTS

Form Buster - Senior Project   *Sep. 2018 – Apr 2019*
- Involved in writing Requirements, Design and Test documents for an online Forms Tracking System
- Implemented an authentication system for the website using Firebase
- Designed and contributed to the implementation of a Firebase NoSQL database to hold user information
- Developed a fully functional website, 94.1% of potential users recommended the university to use over the current system

AutoSAD - Continuing Education at Florida Tech   *Oct 2017 – Mar 2018*
- 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%

ingine - iOS Application/Startup   *Feb 2017 - Present*
- Created requirements, design and test documents for the 'ingine' iOS AR application and databases
- Drafted business plans, revenue models, and communicated with investors and collaborators
- Built iOS prototype app that allows users to create and share AR experiences using ARKit and Firebase