

McNels Sylvestre

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EDUCATION

Florida Institute of Technology

Melbourne, FL

B.S. Software Engineering | GPA: 3.76/4.0

Intended Grad: May 2019

Relevant Coursework: Algorithms, Data Structures, Software Requirements, Software Metrics and Models, Software Design Methods, Software Testing, Computer Architecture, Operating Systems, Linear Algebra, Computer Networking, Differential Equations, Human Factors, Discrete Mathematics, Probability and Statistics

Involvement: ACM PR Officer, CS Help Desk, MLH Local Hack Day Organizer, ICPC volunteer

Honor Societies: Phi Eta Sigma (Webmaster), Tau Beta Pi (Secretary), Upsilon Pi Epsilon, Phi Kappa Phi

SKILLS & INTERESTS

Technical

Proficient in C++, HTML, CSS, JavaScript, Java, Git, Firebase; Familiar with Ruby, Bash, MySQL, C, Linux, Windows, macOS, Terminal, Swift, XCode; Experience with AWS, Angular, APIs, Slack, Virtual Machines

Spoken Languages

English, French, Spanish, Haitian Creole

Soft Skills

Technical Documentation, Communication, Teamwork, Problem-solving, Self-Management, Customer Service, Technical Support, Prototyping with Adobe XD

Interests

Human-Computer Interaction, Cybersecurity, Graphs, Data Visualization, Neuroscience, Embedded Systems

WORK EXPERIENCE

Florida Institute of Technology

Melbourne, FL

LMS Support Assistant – Continuing Education Dept. at Florida Tech

May 2017 - Present

- 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

ingine - Startup Company

Melbourne, FL

Co-Founder | Software Lead

February 2017 - Present

- 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
- Supervised database creation and maintenance (MySQL and PHP), neural network training with AWS EC2 and PyTorch, and iOS application development

PROJECTS

Form Buster - Senior Project

Sep. 2018 – Present

- 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

AutoSAD - Continuing Education at Florida Tech

Oct. 2017 – Mar. 2018

- Pulled students page views activity 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 server to increase security and ease of use

OS161 - Operating Systems Course

Jan. 2018 – Apr. 2018

- 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

Miscellaneous

Dec. 2016 - Present

- Implemented data structures and solved lab problems in Java and C++
- Wrote Requirements document for a smart device and a Test Plan for a website in compliance with IEEE standards; Black-box tested programs on a server using Bash
- Implemented Petrick's method to minimize boolean functions in Ruby

AWARDS

- Outstanding Senior in Software Engineering
- Dean's List

Apr. 2018
Every Semester