

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, 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

Languages/Technologies

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, Virtualization

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

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

AWARDS

- Outstanding Senior in Software Engineering
- Dean's List

Apr. 2018
Every Semester