

Manuel Toledo

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EDUCATION

Florida International University | Miami, FL

Expected December 2020

- **Major:** Bachelor of Science in Computer Science
- **Coursework:** Software Engineering II, Software Testing, Data Structures, Database Management, Theory of Algorithms
- **Memberships:** Upsilon Pi Epsilon, FIU R6 Gold Team
- **Dean's list:** Spring 2020
- **Hackathons:** UPE ShellHacks 2020, KnightHacks 2020

SOFTWARE PROJECTS

Robotics Academy Website

August 2020 – December 2020

A web application built with Laravel, focused on teaching robotics courses to users

Senior Project, Computer Science; FIU

- Collaborated with 3 other developers in an agile scrum setting
- Pulled user data from a MySQL database and incorporated ajax calls to create a no refresh table with server-side pagination to manage site users
- Applied Bootstrap, JavaScript, jQuery, and PHP to create a dynamic quiz system that allows instructors to build, edit, and publish quizzes in their own lessons
- Utilized Laravel's MVC architecture to handle views, computation, and data manipulation

MIDAS

January 2020 – April 2020

A mobile and web financing application

Software Engineering II, Computer Science; FIU

- Worked in a team of two other students to design app functionalities and use cases
- Used the Rational Unified Process to structure team goals for deliverable documents
- Utilized UML and use cases to architect and specify functionalities in the system
- Engineered a microservice architectural pattern to modularize system services to allow for simple service manipulation
- Employed singleton, abstract factory, facade, and command patterns to address common problems

Weather

February 2020 – March 2020

A desktop application that displays user weather and location information

Personal Project

- Used Java to build a GUI that displays weather information and designs based on user location
- Consumed the IPAPI and OpenWeatherMap RESTful APIs to pull user location and weather data
- Implemented the GSON library to read API calls and manipulate app functionality accordingly

Automatic-resolution-changer

July 2019

Changes monitor resolution once a desired application runs or closes

Personal Project

- Worked with Python to discover running processes in a windows system
- Incorporated the PySimpleGUI QT library to develop a streamlined GUI for easier user interaction
- Employed QRes in a batch file to change monitor resolution on process call
- Manipulated JSON to store user input from the GUI into a local file, effectively allowing the system to determine which apps to process

Henry Website

April 2018

A web application that pulls Book data from a local database

Database Management, Computer Science; FIU

- Utilized node.js and express.js to deploy the website on a local machine
- Integrated express.js to send SQL commands to pull and edit MySQL tables
- Consolidated HTML, CSS, and Bootstrap to organize database information, enabling easier data manipulation of MySQL tables
- Applied jQuery to handle frontend requests to backend

SKILLS

Languages: (proficient) Java, Python, JavaScript, HTML, CSS, PHP, UML (familiar) C/C++, SQL, Junit, Selenium, Bash script, F#

Frameworks: Laravel, Vue.js, Express.js, Bootstrap, Agile Scrum

Tools and Technologies: Git, MySQL, Node.js, jQuery, MVC, RESTful API, WSL, Linux, Eclipse, Visual Studio, Google Cloud

Spoken Languages: English (Native), Spanish (Fluent)