

Daniel Castro

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Education

University of Florida

B.S. IN COMPUTER SCIENCE, MINOR IN PHILOSOPHY

GPA: 3.12/4.0

Gainesville, Florida

Aug. 2015 - Exp. May. 2020

Relevant Coursework: Data Structures and Algorithms, Software Engineering, Database Systems, Operating Systems, Computer Networking

Skills

Programming Languages: Python, JavaScript, C#, C/C++, Java, SQL, HTML/CSS

Tools / Frameworks: Git, React, Node.js, MongoDB, Express.js, Processing

Operating Systems: Linux, Windows, MacOS

Foreign Languages: Fluent in Spanish

Experience

Amazon Web Services

SYSTEMS DEVELOPMENT ENGINEER INTERN

Herndon, VA

Sep. 2019 - Present

- Developed command line interface to allow for quick ticket creation and updates.
- Implemented Python scripts to automate the process of ticket management.

Thales Avionics

SOFTWARE ENGINEER INTERN

Melbourne, Florida

May. 2019 - Aug. 2019

- Implemented dashboard to display and analyze real-time data from airplanes and alert team of problematic flights.
- Created scripts that automatically parse and retrieve specific flight data from MongoDB database.
- Designed web pages using JavaScript, PugJS, and Bootstrap4

Projects

Dimension (C#, Unity)

A 3D platform game where player must utilize jumping mechanics and defeat several monsters and bosses.

Gainesville, Florida

Feb. 2019 - May. 2019

- Implemented in Unity environment with C#
- Created enemy and boss AI using Finite State Machine
- Created scripts that controlled player health
- Collaborated with a team of 5 members

PixMap (Node.js, AngularJS, Express, MongoDB)

PixMap is an application designed to help connect users and share memories around the world. Users are able to upload photos based on their location as well as comment and like photos from all across the globe.

Gainesville, Florida

Oct. 2018 - Dec. 2018

- Implemented back-end functionality such as image posts uploading to MongoDB database and user authentication
- Designed and created Contact Us and About pages with Bootstrap
- Collaborated with a team of 5 members

AI Dots (Java, Processing)

A simulation where dots must iterate through several generations in order to successfully avoid obstacles and reach the goal.

Gainesville, Florida

Nov. 2018

- Implemented in Processing environment
- Learned about Genetic Algorithm concepts such as calculating fitness, natural selection, and evolution

Involvement

Society of Hispanic Professional Engineers

MEMBER

Gainesville, Florida

Fall 2018 - Present

UF Programming Team

MEMBER

Gainesville, Florida

Spring 2017 - Present