

MICHAEL FERRARA

FULL STACK DEVELOPER

LinkedIn: [in/michael-ferrara1](https://www.linkedin.com/in/michael-ferrara1)

Portfolio: michaelferrara.herokuapp.com

GitHub: github.com/michaelferrara

CONTACT INFORMATION

(321) 626 - 7704

Ferrara.Michael98@gmail.com

SKILLS

Programming / Web

HTML · CSS · JavaScript · NodeJS · React
AngularJS · Python · Flask · Github
XModule · MySQL · PHP · Java · C · C#

Design

Unity (2D/3D/VR) · Photoshop · Illustrator
Figma

HONORS & MEMBERSHIPS

UCF Silver Pegasus Award
Academic Scholarship

Burnett Honors College

UCF Dean's List

UCF President's List (4.0 GPA)

Florida Bright Futures Academic Scholars
Award

Major League Hacking 2017-present

Highschool STEAM Diploma

EMPLOYMENT HISTORY

Techranger - Web App Developer

The University of Central Florida

Center for Distributed Learning (5/2020-Present)

Web application developer and course development support for online learning. Developing unique and maintaining existing, educational, and accessible widgets using React, AngularJS, and PHP for UCF's in-house, open-source learning platform, Materia. Currently tasked with leading conversion of Materia's front-end from AngularJS to React.

Software Engineer Intern

The Thales Group, Melbourne FL (2017)

Reported to the Director of Software Development; assisted the team developing airline, in-flight entertainment systems. Worked with developers and designers to create documentation laying out the exact design and structure of the entertainment systems. Created three separate sets of documentation for Air Canada, Royal Air Maroc, and JetBlue's seatback entertainment system.

PROJECTS

Materia React Conversion

Leading large-scale project for full front-end conversion of UCF's open-source learning platform, Materia, from AngularJS to React. Optimizing application with React-Query to enable caching, optimistic updates, and additional advanced features to speed up and improve performance.

Webcourses Custom Dashboard

Created planner/calendar application that auto-populates with assignments and exams from Webcourses (Canvas), while also allowing users to add custom events all in one view. Created the application using Vue, Flask, SQLAlchemy, and the Techranger's Canvas API.

The Court of the Crimson King

Developed 2D turn-based RPG with procedurally generated dungeons. Managed three-person team assigning roles and responsibilities. Lead bi-weekly meetings to ensure goals were achieved in accordance with the established timeline. Constructed procedural dungeon generator, battle system and AI, and the managers for the save, data, quest/dialogue, and UI systems. Created application using C# in Unity.

DNA Sequencer Widget

Designed and developed application to be added to UCF's collection of learning widgets, Materia, to provide medical school students the ability to practice sequencing DNA reads. Created the application with React and PHP using UCF's Materia widget development kit.

EDUCATION

University of Central Florida
BS in Computer Science,
2017-2021
3.7 GPA