

GUIDO RUIZ

FULL STACK WEB DEVELOPER

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EDUCATION

M.S. in Computer Science, Florida International University, **3.87**

August 2017

B.S. in Computer Science, Florida International University, **3.65 (Cum Laude)**

December 2015

SKILLS

Web Development: Javascript, Vue, React, Angular, JQuery, PHP, Bootstrap, Pixi.js, Three.js, WebGL
Mobile / Software: Swift iOS, Electron, Java, C/C++, C#, Python, Visual Basic, Android, Ionic, React Native
Server / Databases: Node.js, MongoDB, Parse Framework, Express, MySQL, PostgreSQL, Apache
Miscellaneous: Photoshop, Unity, Blender, AWS, Firebase, Bilingual in Spanish and English

EMPLOYMENT

Mobile and Web Developer for M-DCPS

May 2019 – Present

Full Stack Web Developer for M-DCPS

June 2018 – May 2019

- Developed an **Electron-Vue app** that provides teachers with live student data to help guide performance. Amongst its many features are classroom analytics, school-wide test analyses, usage reports, and differentiated instruction plans.

Independent Contractor for VARCAT INC (Personal Business)

June 2017 – December 2018

- Developed a **web app using Angular** that manages cruise line projects on the cloud and creates complex weekly calendars that can show up to thousands of events at once.
- Developed a **web app using Angular** that draws Miami properties as polygons on Google Maps with additional information including area, sale date, current owner(s), and more.
- Developed a **web app using Vue** that houses a Unity game and provides session information stored in a database.

Student Research Assistant for VISAGE Lab at FIU

August 2012 – June 2017

- Developed a **virtual character using WebGL** that speaks, changes facial expressions, and performs lifelike movements such as breathing, blinking, and eye dilation.
- Developed a **web app using Angular** that houses the virtual character in the context of counseling to provide personalized interventions that treat alcohol abuse based on the user's dependence severity.

PROJECTS

- Developed an **iOS app using Swift, Ionic, Parse, and AWS** that allows for a hands-free social media experience.
- Developed an **iOS app using Swift and Firebase** that allows users to communicate using short voice notes.
- Developed a **website using PHP, C, Apache, and Postgres** that provides a queueing system for users to fairly use a DNA sequence analyzer running on a multi-clustered network of machines.
- Developed a **website using plain Javascript** that provides a YouTube experience that is entirely controllable with eye gaze for users that are physically paralyzed.

PUBLICATIONS

Reza Amini, C. Lisetti, G. Ruiz, “**HapFACS 3.0: OpenSource FACS-Based Facial Expression Generator for 3D Speaking Virtual Characters**”, IEEE Transactions on Affective Computing, 2014.

A. Delamarre, C. Buche, M. Polceanu, S. Lunn, G. Ruiz, S. Bolivar, E. Shernoff, C. Lisetti, “**An Interactive Virtual Training (IVT) Simulation for Early Career Teachers to Practice in 3D Classrooms with Student Avatars**”, FLAIRS, 2017.