

Alejandro Rubio

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Education

University of Central Florida, Orlando, FL
Bachelor of Science in Computer Science, May 2022

Notable Coursework: Robot Vision, Artificial Intelligence, Discrete Structures, Processes of Object-Oriented Software, Web Based Information Technology, Operating Systems, Secure Operating Systems and Administration, Senior Design, Agile Methods

Technical Skills

Coding: Java, Python, C, HTML, CSS, JavaScript

Technologies and Environments: React JS, Git, Jira, Bitbucket, Firebase, Bootstrap, Linux, Ubuntu

Experience

Motorola Solutions, Plantation, FL
Embedded Software Engineer Intern (Summers 2020 & 2021)

- Developed 3 Python scripts for Software Tools Team that organized hundreds of radio firmware versions in existing GUI using regex and string manipulation. Created several unit tests for these various scripts while employing industry standards.

Technologies Used: Python, Jira, Bitbucket, Git

- Lead investigations into issues customers are facing in the field, in the Current Projects Engineering Team while implementing Agile Methods. Root-caused over 6 different customer issues using proprietary radio logging software, unit test creation, and real-time problem analysis to identify and eliminate bugs.

Technologies Used: C, Linux, Jira, Bitbucket, Git

Projects

github.com/alrubbio

Twitch.tv Video Clip Compiler (2022)

- Web-scraped clips from Twitch.tv then used a *Neural Network* to detect which clips were considered valid. Compiled and edited the remaining clips using Python libraries.

Technologies Used: Python Selenium for Web-scraping, Python moviepy for concatenating clips, Davinci Resolve 18 for video-editing touch ups.

Composition Today - Senior Design (2021/2022)

- Revamped an existing website from 1994 to modern ReactJS framework. Created user authentication system with *Google Firebase*, managed site-wide routing with *React modules* and designed clean visuals for elegant user experience. Implemented usage of custom API with over 100 endpoints.

Technologies Used: React JS, Python, TypeScript, Sass, HTML, CSS

Volunteering

SERVICE PROJECTS TO COLOMBIA (2010, 2014, 2017, 2019, 2022)

- Worked with local churches, families, and school groups to collect clothing for homeless families/individuals in Armenia and Cali, Colombia. Each trip consisted of about 10 suitcases of clothing, and school supplies that were delivered personally to various struggling communities.
- Supported their local soup kitchens with volunteer work