

Andres Rodriguez Michel

Details

Location

Phone

Email

GitHub

[Dosx001](#)

Education

California Polytechnic State University
San Luis Obispo, CA
Bachelor of Art, Physics

Languages

Python, JavaScript, TypeScript, C++, HTML, CSS, SCSS, Bash, LabVIEW, MATLAB

Frameworks

PyUnit, Selenium, Bootstrap, Django, Electron

Libraries

Matplotlib, NumPy, jQuery, Coverage.py, Google Test, Mousetrap

Package Managers

APT, pip, npm, Chocolatey

IDE / Text Editors

Vim, Visual Studio Code, Visual Studio, Android Studio, PyCharm

Operating Systems

Windows, Linux, Ubuntu

Other

Git, Markdown, CMake, Makefile, Microsoft Office, Photoshop, AJAX, Arduino

Personal Projects

My Resume -- [Source Code](#)

Summer 2021

- Created this resume with [HTML](#) and [CSS](#)

[AnimeCalendar.github.io](#) -- [Source Code](#)

Winter 2021 - Present

- Built a responsive website with native [JavaScript](#), [HTML](#), [CSS](#), [TypeScript](#), [SCSS](#)
- Users can create their own calendar by picking from all 58 Summer 2021 anime
- Offers quick and easy access to each anime streams like Hulu, YouTube, VRV, etc.
- Records and displays user's watch history
- Created a multitude of hotkeys, allowing users to navigate the site without a mouse
- Coded a [Python script](#) with [Selenium](#) to web scrape and creates a JSON file containing currently airing anime titles, air times, cover art, and stream links

AliasMe -- [Source Code](#)

Winter 2021

- Coded a [Bash](#) script that runs user generated static and dynamic Linux commands
- Collaborated with Taiwan based [partner](#)

GitPrompt -- [Source Code](#)

Fall 2020 - Summer 2021

- Coded a multithreaded [C++](#) program using Object Oriented Programming
- Displays a compact color coded Git Status inside your Linux Bash prompt
- Check out all 20 different color codes [here](#)
- In addition displays the latest commit log, number of stashes, and current branch

Mini-RPG -- [Source Code](#)

Summer 2020

- Designed a Linux terminal game, written in [C++](#), where a player tries to escape a maze while fighting randomly spawning enemies in turn-based combat
- Created test cases using [Google Test](#)
- Coded a [Bash scripts](#) to automate tests, generate coverage report, and run exe files

Work Experience

BEACON: Student Assistant

Summer 2017 - Fall 2019

- Worked with a diverse multidisciplinary team from three universities to design an antenna to detect neutrinos
- Took ownership of various projects like simulating antennas, building antenna, etc.
- Analyzed large volumes of data for hundreds of simulations using [Python](#), [Matplotlib](#), and [NumPy](#)
- Communicated with team through phone/video calls, Slack, and weekly meetings

Relevant Coursework

Data Structures || Fundamentals of Computer Science

Spring 2020

- Programmed projects using Object Oriented Programming
- Debugged and tested code using [PyUnit](#) and [Coverage.py](#)
- Assisted more than dozens of peers with their assignments and debugging code

Quantum Physics Laboratory I || II

Fall 2018 || Winter 2019

- Used [Python](#) in weekly technical reports for data visualization and analysis
- Gave two technical presentations explaining experimental lab results

Physics on the Computer

Spring 2018

- Solved complex physics problems by coding simulations and data manipulation
- Utilized numerical methods like Monte-Carlo, interpolation, etc.

Leadership Experience

Cal Poly Chess Club: Event Coordinator

Fall 2017 - Spring 2018

- Collaborated with cabinet to plan and organize public events

Ballet Folklórico de Cal Poly: Public Relations

Fall 2016 - Spring 2017

- Maintained the public image and online presence of the club