

Andres Rodriguez Michel

Details

Address

Phone

Email

GitHub

[Dosx001](#)

Education

California Polytechnic State
University
San Luis Obispo, CA
BA 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

- This resume was created using [HTML](#) and [CSS](#)

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

Winter 2021 - Present

- Built an interactive website using [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, etc.
- Records and displays user's watch history
- Offers 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: [Bash script](#) -- [Source Code](#)

Winter 2021

- Executes user generated static and dynamic Linux commands
- Collaborated with Taiwan based [partner](#)

Git Tools: [Linux Bash Prompt](#) -- [Source Code](#)

Fall 2020 - Summer 2021

- Programmed 4 [Bash](#) functions to display Git info on the Linux Terminal
- Color codes and displays every unstaged file inside a Git directory
 - 17 different color codes: red = delete, yellow = edit, green = staged, etc.
- Displays the latest Git commit, number of Git stashes, and current Git branch

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

Summer 2020

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

Work Experience

BEACON: Student Assistant

Summer 2018 - Fall 2020

- Worked with a diverse multidisciplinary team from three universities to design an antenna to detect neutrinos
- Took ownership of various projects like simulating antennas, analyzing data, 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 data 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
- Utilize numerical methods like Monte-Carlo, interpolation, parameter optimization

Leadership Experience

Cal Poly Chess Club: Event Coordinator

Fall 2017 - Spring 2018

- Collaborate with cabinet to plan and organize public events

Ballet Folklórico de Cal Poly: Public Relations

Fall 2016 - Spring 2017

- Maintain the public image and online presence of club