

# 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](#),  
[VimScript](#), [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:** 10, 8.1, 7, 8  
**Linux:** Ubuntu

## Other

[Git](#), [Markdown](#), [CMake](#), [Makefile](#),  
[Microsoft Office](#), [Photoshop](#),  
[AJAX](#), [Arduino](#)

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

## Personal Projects

**Vim-Template:** [Documentation & Source Code](#) **Fall 2021**

- Designed a Vim plugin using [VimScript](#) and Regular Expression that generates starter code for multiple languages when opening new files
- Vim-Template can also automate importing packages and can add a personalized header with a custom format date

**AnimeCalendar.github.io:** [Documentation & Source Code](#) **Winter 2020 - Present**

- Built a responsive website with native [JavaScript](#), [HTML](#), [CSS](#), [TypeScript](#), [SCSS](#)
- Users can create their own calendar by picking from all 76 Fall 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:** [Documentation & Source Code](#) **Winter 2020**

- Edited a [Bash](#) script to allow user generated dynamic Linux commands to execute
- Collaborated with Taiwan based [partner](#)

**GitPrompt:** [Documentation & Source Code](#) **Fall 2020 - Summer 2021**

- Coded a multithreaded [C++](#) program using OOP and pipes
- 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

## 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