

Andres Rodriguez Michel

Details

Address

Phone

Email

GitHub

[Dosx001](#)

Education

California Polytechnic State
University, San Luis Obispo, CA
BS Physics

Languages

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

Frameworks

Bootstrap, Django, Electron,
PyUnit, Selenium

Libraries

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

Package Managers

APT, Chocolatey, npm, pip

IDE / Text Editors

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

Operating Systems

Linux, Ubuntu, Windows

Other

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

Personal Projects

My Resume [GitHub repo](#)

Summer 2021

- This resume was programmed using HTML and CSS

[AnimeCalendar.github.io](#): website [GitHub repo](#)

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 using Selenium to scrape info from online and create a JSON file containing all currently airing anime titles, air times, cover arts, and stream links, allowing the website to automate tasks

AliasMe: Bash script [GitHub repo](#)

Winter 2021

- Executes user generated static and dynamic Linux commands
- Collaborated with Taiwan based partner

Mini-RPG: game [GitHub repo](#)

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
- Tested coded 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, building antenna mast, and analyzing data
- Analyzed large volumes of data for hundreds of simulations using Python, Matplotlib, and NumPy
- Communicated with team through phone/video calls, presentations, posters, 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 peers with their assignments and debugging code

Quantum Physics Laboratory I || II

Fall 2018 || Winter 2019

- Designed data collection methods and analyzed data to report parameter estimations and uncertainties
- Used Python in weekly technical reports for data visualization and data analysis
- Gave two technical oral presentations to peers explaining quantum phenomena using personal 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