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