

Andres Rodriguez Michel

Details

Location

Phone

Email

GitHub

[Dosx001](#)

Personal Website

[AboutAndres.vercel.app](#)

Education

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

Languages

TypeScript/JavaScript, Zig, C/C++,
Python, Rust, HTML, CSS

Skills

Git, Docker, CMake, Makefile, Jira,
Confluence, BitBucket

Operating Systems

Arch Linux, Red Hat Enterprise
Linux, Ubuntu

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

Work Experience

NASA: Systems Developer

April 2023 - Sept 2025

- Assisted porting legacy C++98 32-bit codebase to Linux
- Designed a brand new GUI for Linux systems using Tauri, SolidJS, and Tailwind CSS
- Created a gRPC server to facilitate communication between GUI and C++ codebase
- Containerized software using Docker Compose to build and test
- Packaged and distribute software for RHEL systems using RPM

BAE Systems: Software Engineer

Jan 2022 - Sept 2022

- Integrated and tested C++ software on military grade equipment
- Developed shell scripts to automate daily tasks such turning off lab equipment
- Utilize MySQL to keep track test results for regression tests and engineering checks
- Documented and track issues using Jira and communicated with team on resolution

BEACON: Lab Assistant

Jun 2017 - Aug 2020

- 3D modelled antennas and ran electromagnetic simulations using XFDTD
- Analyzed hundreds of simulations using Python, Matplotlib, and NumPy
- Presented relevant metrics of large datasets in academic settings and meetings
- Communicated with a diverse multidisciplinary team from three universities

Cal Poly Dining: Student Assistant

Sept 2016 - Mar 2017

- Worked in fast-paced dynamic environment by role switching in critical moments
- Tracked and manage numerous tasks such cash register, stocks, food stations, etc

Personal Projects

AniCal: [Documentation](#)

Jan 2021 - Present

- Built a full stack Next web app, allowing users to create a calendar of airing anime
- Created a login and authentication system using NextAuth
- Manage and store user info using a Turso SQLite database
- Provided a quick access to each anime's stream like AppleTV, Disney+, Hulu, etc.
- Programmed a event handler to record and display user watch history
- Web scrape cover art, stream links, air times, etc with [Python](#), cURL, and Selenium

mouselessV2: [Documentation & Source Code](#)

Dec 2022 - Present

- Forked browser extension [mouseless](#) and made numerous of bug fixes and features
- Reduced build size from 86.04 KB to less than 39 KB
- Rewrote code from JavaScript to TypeScript and fixed all lint and deprecation errors

Manual Code Injector: [Documentation & Source Code](#)

Dec 2022 - Present

- Coded a browser extension allowing users to inject personal code using hotkeys
- Designed a UI allowing users write code and bind to a key with modifiers

GitPrompt: [Documentation & Source Code](#)

Jul 2020 - May 2021

- Developed an CLI tool that color codes files at various git stages
- Adjusted user Linux prompt displaying latest commit log, total stashes, branch, etc.
- Packaged and distributed on Arch Linux User Repository
- Coded a multithreaded C++ program with object oriented programming and pipes