

CHRISTOPHER ODOM

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Software Engineer

WORK EXPERIENCE

- 2020 **Software Engineer** Red Hat
Assisted in web API upgrades to the Ceph Dashboard
Python / CherryPy
- 2018 – 2019 **Software Engineer** Draper
Aided in guidance and navigation flight software development by creating tools for hardware and software engineers to test various software and hardware components to comply with strict CRS2 contract requirements (For ISS Resupply)
C / VxWorks / Python / Sockets
- 2018 – 2019 **Lab tech** ECG Lab, Umass Lowell
part time w/ classes
Aided in CS education research by maintaining and upgrading systems in use at the ECG lab, including the iSense web service and its associated Applinventor plugin
Ruby on Rails / Linux / AWS / Java (Android)

OSS CONTRIBUTIONS

- 2023 **Raylib**
Using the UB sanitizer in LLVM, detected and mitigated reliance on undefined behavior in raylib's rlg layer.
C / LLVM
- 2019 – 2020 **Fedora on Raspberry Pi**
Built a classroom-ready Fedora base install that could be used on the Raspberry Pi by students
- Bootstrapped Fedora Minimal into a useful dev environment using scripts
 - Researched Fedora Remix image generation
- C / Shell Scripting / Linux Userspace

PERSONAL PROJECTS

- 2023 **RPG Dialogue System**
Designed and implemented a branching dialogue interpreter library for a for an unreleased RPG. The library parses text files and emits a fully featured dialogue tree with mechanisms to install triggers for game events. This project loosely follows the **Crafting Interpreters** book, thus it resembles an **interpreted programming language**.
Zig / Interpreter and Lang design
- 2023 **Personal Website** <https://github.com/Codom/codom.github.io>
Custom static website generator built on top of python-markdown and using three.js for modern graphics.
Python / Js / GLSL
- 2023 **Notes Server**
Using Python, orchestrated a web server to interactively serve markdown rendered to HTML to the user while keeping track of to-do items.
Python
- 2023 **CLAP Plugin** <https://github.com/Codom/SimpleGuitarAmp>
Using a mix of Zig, C, and test libraries written in Rust, created a generic guitar amp simulation using a combination of cubic nonlinear distortion and filter equations.
Zig / C / Rust