CHRISTOPHER ODOM

Software Engineer

Greater Boston, US
willing to relocate

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WORK EXPERIENCE

06/20 – 08/20	**Software Engineer** — **Red Hat**

Assisted in web API upgrades to the Ceph Dashboard

```
Python / CherryPy
```

07/18 – 01/19	**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 part time	**Lab tech** — **ECG Lab, Umass Lowell**

Aided in CS education research by maintaining and upgrading systems in use at the ECG lab, inluding the iSense web service and it's associated appinventor plugin

```
Ruby on Rails / Linux / AWS / Java (Android)
```

GITHUB PROJECTS

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. Hosted on ipfs using **fleek** pipeline

```
Python / Js / GLSL
```

2023	**Guitar Amp Simulator** — https://github.com/Codom/SimpleGuitarAmp

Using a mixture of C, Zig, and Rust, created a CLAP plugin that simulates a guitar amp in realtime

```
Zig / C
```

2022	**liballoc** — https://github.com/Codom/liballoc

Implemented a single header api for sandboxing memory into a hierarchy of different heaps that use different allocation algorithms. Includes a bump allocator, malloc/free integration, and limited sanitizer integration.

```
C / TDD
```

EXTRA-CIRRICULARS

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
```

2019 – 2020	**CCDC**

Worked in a fast paced environment in order to propel our school's ccdc team into the NECCDC regional

```
Shell Scripting / Linux Defensive SecOps
```

EDUCATION

2017 – 2021	**Coursework in Computer Science** — **UMass Lowell**

Completed graduate coursework in OS, undergrad courses dealing with Architecture, ASM, Algo-rithms, etc. and completed projects related to vm and language development.