

# Devin Pohl

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I am a senior year undergraduate Computer Engineering student at Colorado State University with interests in embedded systems. I have a passion for programming and electronics, driven to better the world through open source and cutting-edge applications.

## Education

- **Colorado State University** **Fort Collins, CO**  
Graduating May 2022
  - *Bachelor of Science in Computer Engineering, Minor in Mathematics, Minor in Computer Science*
  - **Relevant Coursework:** Computer Micro-Architecture, Software Engineering, Operating Systems, VSLI, Algorithms and Optimization, Low Level Programming, Analog and Digital Circuit Construction, Signals and Systems
  - **ECE Outreach:** Exciting Middle and High School students about Electrical and Computer Engineering by teaching seminars on programming, leading in-class workshops on robotics, and building eye-catching electronics demos
  - *Digital Team Lead:* Organizing events, overseeing projects, collaborating with other Outreach teams, and networking across CSU





## Technical Skills

- **Programming Languages:**
  - Procedural ARM Assembly, Bash, **C**, Fish, Matlab, MIPS, Verilog
  - Object-Oriented Arduino, **C++**, Java, **JavaScript**, Python, **Rust**, VBS
  - Functional Lisp, Elisp, **L<sup>A</sup>T<sub>E</sub>X**
- **Libraries and Frameworks:**
  - Graphical Native X11, XCB, Cairo, Pango, Unicode CLDR, GTK, Qt, Android API, ncurses
  - Computational GMP, OpenMP, OpenCL, OpenGL, Rink.rs, Sage
  - Web Based Rocket.rs, ReactJS, VueJS, NodeJS, ExpressJS, jQuery

## Work Experience

- **Platform Engineering Intern** **Fort Collins, CO**  
May 2021 – Aug 2021
  - *Hewlett Packard Enterprise – NonStop Low-Level Team*
  - Designed a performance modeling library to mock enterprise-grade RDMA without dedicated hardware
  - Proved the feasibility of an implementation that would draw in several new, large customers
  - Worked in C++ with InfiniBand and NSK to invisibly apply modifications to existing benchmarks
- **Software Development Intern** **Fort Collins, CO**  
May 2020 – Aug 2020
  - *Hewlett Packard Enterprise – NonStop Manageability Team*
  - Improved and optimized OSM, the main application for maintaining, updating, and upgrading NonStop servers
  - Migrated critical security procedures from CLI to GUI, cutting down on time overhead and human error for end-users
  - Worked in Java, using Swing, AWT, RMI, and several internal HPE libraries
- **Programming Instructor** **Fort Collins, CO**  
Jul 2019 – Aug 2019
  - *Tech Corps*
  - Lead multiple week long summer camps aimed at Middle and Elementary School students
  - Prepared and delivered material covering programming fundamentals, theory, and applications
  - Delivered lessons and projects in Scratch, MIT App Inventor, and Python

## Notable Projects

- **hotpatch** **v0.3.0 Released Feb 2021**
  -  *Shizcow/hotpatch*  *docs.rs/hotpatch*
  - Rust crate for cross-platform hot-reloading of functions and methods at runtime as easily as possible
  - Guarantees memory safety, thread safety, type correctness, and namespace parity
- **dmenu-rs** **v5.5.1 Released Dec 2020**
  -  *Shizcow/dmenu-rs*  *arch::aur::dmenu-rs*
  - A program launcher, unit-aware calculator, spellchecker, search engine dispatcher, and general purpose menu for Linux
  - A port of the popular GNU utility dmenu to Rust, offering increased speed, lower memory usage, and extensive plugin support
  - Thousands of users and 100+ stars on GitHub