

Devin Pohl

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🌐 Shizcow • 🏠 Shizcow • 🌐 www.pohldev.in

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 Circuits, Signals and Systems
 - **Senior Design:**
 - Designing and implementing embedded systems for enterprise-grade quadrapedal robotics
 - Extending existing open-source designs to provide feature-parity with existing industry solutions at a fraction of the cost
 - Collaborating with ECE Outreach to excite middle and high school students about Electrical and Computer Engineering

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, **LaTeX**
- **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, Zola, 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