Devin Pohl

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I am a final semester undergraduate student studying Computer Engineering at Colorado State University.
I have a passion for programming and electronics, with interests in low-level, embedded, and kernel-space programming.

Education

Colorado State University — **Fort Collins, CO**
Bachelor of Science in Computer Engineering, Minor in Mathematics, Minor in Computer Science — *Graduating May 2022*
summa cum laude — Anticipated 4.0 GPA

- **Relevant Coursework:** Compilers, Fault Tolerant Computing, Computer Micro-Architecture, Software Engineering, Operating Systems, VLSI, Computer Networking, Analog and Digital Circuit design, Signals and Systems

Technical Skills

- **Programming Languages:**
  - Procedural — ARM Assembly, Bash, **C**, Fish, Matlab, MIPS, Spice, Verilog
  - Object-Oriented — Arduino INO, **C++**, Java, **JavaScript**, Python, **Rust**
  - Functional — Lisp, Elisp, **LaTeX**, Scala
- **Libraries and Frameworks:**
  - Graphical — Native X11, XCB, Cairo, Pango, Unicode CLDR, GTK, Qt, Android API, ncurses
  - Computational — GMP, OpenMP, OpenCL, OpenGL, GLSL, Rink.rs, Sage
  - Web Based — Rocket.rs, Zola, ReactJS, VueJS, NodeJS, ExpressJS, jQuery

Work Experience

Platform Engineering Intern — **Fort Collins, CO**
Hewlett Packard Enterprise – NonStop Low-Level Team — *May 2021 – Aug 2021*

- Designed a performance modeling library to mock enterprise-grade RDMA behavior without dedicated hardware
- Proved feasibility of an implementation method that would drastically reduce startup cost for new customers
- Worked in C with InfiniBand and NSK to invisibly apply kernel-mode modifications to existing benchmarks and applications

Software Development Intern — **Fort Collins, CO**
Hewlett Packard Enterprise – NonStop Manageability Team — *May 2020 – Aug 2020*

- 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**
Tech Corps — *Jul 2019 – Aug 2019*

- 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

Senior Design Project — **Ongoing Development**
Colorado State University – ECE Department — *Aug 2021 – May 2022*

- Designing and implementing an embedded systems framework for enterprise-grade quadrupedal robotics applications
- 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

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, deadlock protection, type correctness, and name-space 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
- Maintains perfect backwards compatibility, garnering thousands of users and 100+ stars on GitHub