

Personal info

✉ payzantedwardiv@gmail.com

📍 Ottawa, Ontario

Education

Bachelor of Computer Science

📍 Carleton University

September 2017 - June 2021

Links

🔗 apayzant.xyz/

🔗 github.com/AdamPayzant

Programming Languages

- C
- Rust
- Python
- C++
- Go
- Javascript
- Zig

Areas of Experience

- Networking
- Distributed Computing
- Computer Vision
- Systems Programming
- Low Level Programming

E. Adam Payzant

Software Developer

Work Experience

Software Engineer, Cisco Systems

May 2021-Present

- Worked on the Switch Integrated Security Feature (SISF) team developing a distributed network security feature to glean and track IPv4 and IPv6 hosts throughout a network
- Developed white box, black box, and performance testing suites to validate functionality and detect performance regressions. Tests configured to run nightly
- Debugged issues both through debug logging and GDB
- Worked in C for switch software and white box testing and Python for black box and performance testing

Intern, Oak Ridge National Laboratory

May 2018-August 2018

- Developed research software in Python using Numpy, SciPy, and Matplotlib for parameter optimization of high temperature corrosion patterns

Projects

Operating System (In Progress) 🌀

- A simple RISC-V microkernel with long term plans to add real-time guarantees
- Developed in Zig and RISC-V Assembly
- Currently supports a UART driver and interrupt/syscall system with immediate plans to implement virtual memory and process handling

doit.rs 🌀

- A privileged escalation tool for Linux written in Rust
- Makes use of FFI interfaces to authenticate using Shadow and PAM

Personal Site 🌀

- My personal portfolio website written in Rust
- Uses the Leptos Framework (a Rust framework styled to be similar to JSX) and Tailwind CSS for styling