

Simon Meili

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EDUCATION

B.S. Computer Science
Washington State University

Expected May 2026
Pullman Wa

Skills

Software Engineering, Firmware Engineering, Operating Systems, Software Testing, Software Life Cycle (SDLC)
Languages and Tools: C/C++, Python, Rust, PHP, Yocto Project, Linux, U-Boot, BitBake, QEMU, RTOS, OpenSSL, SQL

Experience

Software Engineer Intern **December 2024 – Present**
Schweitzer Engineering Laboratories **Pullman, WA**

- Migrated devices to 64-bit time handling on 32-bit architecture, applying custom kernel I2C driver and systemd patches to find root cause of a critical time issue at boot, **extending three devices lifespan by 10+ years and avoiding a hardware redesign.**
- Enhanced platform daemon to automatically detect and restore X.509 certificates with invalid Y2038 dates during boot, **restoring thousands of customer certificates** and maintaining long-term device viability with no added boot time.
- Built tool to automatically compare device settings to a security base settings file, **saving technicians hundreds of hours combined** of security checks
- Performed kernel and userspace debugging, systemd patching for more verbose logging, QEMU virtualization, and U-Boot traces to ensure reliability of multiprocessor embedded systems.

Senior Capstone Project **August 2025 - Present**
Cloudflare - Cloesce

- Co-created a model-first compiler framework that automatically generates database schemas, REST API's, frontend API's, and cloud infrastructure from Typescript models, eliminating boilerplate and **unifying full-stack development.**
- Collaborated with Cloudflare engineers to enable Cloesce to deploy instantly on Workers and D1, **expected to save developers hundreds of hours monthly** by streamlining integration into Cloudflare developer platforms.
- Built a Typescript compiler that converts Typescript models to an IR language, developed npm orchestration to unify TypeScript and Rust compilers for **seamless serverless architecture deployment.**

Founding Engineer

DevSwipe LLC - Devswipe: <https://devswipe.io> **June 2025 - Present**

- Founding Software Engineer of a Gen Z-focused technical interview prep app with **Flutter, Supabase, and AWS Lambda.** Features include offering coding questions with autofill templates, Tik-Tok style video explanations, and real-time code execution with instant feedback on results.

Activities and Leadership

Founder, Academic Chair **March 2023 - Present**
Triangle Fraternity

- Founded WSU's first STEM fraternity, growing member size to **40+** within one year.
- Fostered a STEM community within Greek Life, emphasizing collaboration, academic support, and professional development.
- Led fraternity to **highest chapter GPA within WSU Greek Life** for two consecutive semesters.