Alex Spaulding

Systems Software / Apple Platforms / Compositors
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SUMMARY

Computer Science student at Eastern Washington University. Founder of Wawona, a native Wayland compositor for macOS, iOS, and Android. Also build macOS and iOS runtime tooling, reverse-engineering tools, and Nix infrastructure. Seeking internships or full-time as a Systems Software Engineer, Platform Engineer, or Developer Tools Engineer.

EDUCATION

Bachelor of Science (expected 2027), Computer Science, Eastern Washington University 2022-2027
GPA 3.77

EXPERIENCE

Founder and Lead Engineer, Wawona 2025-present
Open Source
- Native Wayland compositor for macOS, iOS, and Android (200+ stars): Rust core, Metal and Vulkan, UniFFI, Nix toolchain, TestFlight.
- On-device shell and userland, Wayland graphics compatibility (GBM, EGL, ANGLE), Waypipe remote apps.

Assembly Technician, Sunburst Sensors 2022-2025
Missoula, MT
- Built and calibrated pCO2 and pH instruments; PCB soldering, firmware updates for 1,000+ microcontrollers, hydrostatic testing.

Technology Educator and Consultant, University of Montana IT 2024-2025
Missoula, MT
- Returned to train students and staff on campus accounts, devices, and software. Closed TeamDynamix tickets; wrote guides; Jamf and Windows imaging.

Technology Educator and Consultant, University of Montana IT 2020
Missoula, MT
- Walk-in and phone support for students and employees. Closed 200+ TeamDynamix tickets; on-site sprints for hardware and account setup.

SELECTED WORK

Wawona 2025-present
Native Wayland for macOS, iOS, and Android (Rust, Metal, Vulkan, Nix). / github.com/Wawona/Wawona

apple-sharpener 2024-present
macOS Ammonia tweak for window corner radii (300+ stars). / github.com/aspauldingcode/apple-sharpener

Whisperer 2024-present
Voice ChatGPT client for Apple Watch (Swift, watchOS). / github.com/aspauldingcode/Whisperer

SKILLS

Core: Objective-C, Swift, Rust, C, Nix, macOS and iOS internals, Wayland, Metal, reverse engineering, continuous integration

ACHIEVEMENTS

- Symposium poster: Native Wayland Compositing on Apple Ecosystems (Wawona) / Eastern Washington University (2026)
- Vice President, Association for Computing Machinery chapter / Eastern Washington University (2026)
- First place, Gonzaga University Hackathon / Gonzaga University (2025)
- First place, Spring Cyber Capture The Flag / University of Montana Missoula College (2024)