Lukas Werner

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Education

Oregon State University Corvallis, OR

Bachelor of Science, Computer Science *Sep 2024 — June 2027*

- **GPA:** 3.71/4.0 | Honor Roll (All Terms)
- **Clubs:** President of ACM Chapter, Member App Dev Club, Member Hackathon Club

Work

Information Security Coordinator Oct 2022 — Feb 2024

Welocalize *Portland, OR*

Analyzed anti-virus logs after malware was discovered on endpoint machines. Built a custom solution for detecting shadow IT infrastructure on the open web, catching at least two departments continuing to run shadow IT servers. Built internal tooling for IT employees to test SSL installation success. Built custom reverse proxy for adding SSO integration to legacy web applications.

Intern Fall 2020 — Oct 2022

Welocalize *Portland, OR*

Built internal tooling that improved processes for shipping final product to clients. Lead the charge of a backend rewrite that led to 200% performance improvement for over 500 employees globally. Built a linguistic analysis program that resulted in a 30% improvement in quality for training data supplied to Amazon Lex.

IT Support Fall 2021

Mackenzie *Portland, OR*

Supported the architecture firm to rebuild the entire infrastructure after a massive cyberattack that took out the entire network.

Projects

Dremel3D-CuraPrintr - Open Source github.com/lukasmwerner/Dremel3D-CuraPrintr

Reverse engineered proprietary network printing protocols for Dremel 3D printers through network traffic analysis (Wireshark). Created and released open source Cura engine driver enabling Dremel compatibility. Now used by over 21,000 users globally, increasing accessibility and utility of Dremel printers with modern open source software.

BeReal for Exercise - StandUp devpost.com/software/standup-40y52x

Built in a 48 hour hackathon, StandUp is a web app that encourages users to take active breaks every 20-40 minutes, sending push notifications and guiding short exercises. It includes a social feature to see friends' activity, fostering a community of office exercise. Built with Svelte and Firebase, Flowbite, Fly, Go, Svelte, and Tailwind.

Math Sandbox - Communal Computing pdx.land/math-sandbox

Math Sandbox is a physical communal computing system focused on providing an approachable way to do math. Using OpenCV and Gemini we were able to build a novel computer interface where the user is able to write math on sheets of paper and then see them graphed in physical space. This project won the 22 hour DubHacks hackathon, title invent track.

Technical Blogging lukaswerner.com/posts/featured

Popular blogposts include exploring the future of AI driven work, HTMX, and a way to sync local-first apps using SQLite.

Skills & Awards

Languages: German (Native Fluent), Go, Python, Java, JavaScript, C++/C, Swift, HTML, CSS

Technologies: Neovim/Vim, Linux, Docker, Firebase, SQL & SQLite, MongoDB, Tailwind

Frameworks: React, Svelte, HTMX