

Evan Schwartzentruber

EXPERIENCE

Junior Software Developer (Internship) – HRS Financing Technologies LLC Jan 2025 – Aug 2025

- Modified their securitization waterfall engine to run concurrently, achieving a 7x speed improvement.
- Authored and deployed several Python-driven Snowflake stored procedures to production, including a multithreaded primary key auditing and enforcement tool that processed millions of records in seconds.

Freelance Rust Developer – Fiverr Dec 2023 – Dec 2024

- Implemented multiplayer features (auth, chat, lobby discovery) for a server of the game Earth 2150.
- Designed and automated a MySQL database backend from scratch, replacing an in-memory store, with SQLx for compile-time checked queries.

Vision Systems Technician I – LG Energy Solution Sep 2025 – Present

- Improved deep learning model accuracy by curating targeted image datasets from false readings and tuning rule-based dimensional inspection parameters to reduce false positives.
- Coordinated daily with overseas vendors to manage hardware adjustments and cell alignment corrections.

Lab Assistant – Michigan Technological University Aug 2024 – Feb 2025

- Guided students through their data structures labs, developing stronger communication and teaching skills.

Crew Member – Jet's Pizza Sep 2019 – Dec 2024

- Gained excellent time management while managing customer interactions.

PROJECTS

[simple-home-dir](#) – Cross-platform library for correctly resolving a user's home directory.

- Over 150,000 downloads, used in over 170 projects • Previously used in **nixpkgs**.

[solars](#) – High-frequency off-chain Solana copy-trading solution.

- Sub-second trade execution via Helius WebSocket detection and multi-route transaction submission.

[waitx](#) – Lightweight Rust signaling primitives, optimized for low workloads.

- Custom exponential backoff solution, outperforming standard primitives for short-delay workloads.

[blazed-demo](#) – Multiplayer 3D renderer built from scratch using OpenGL and SDL2.

- Instance-based rendering • Colored Lighting (ambient, diffuse, specular) • Back-face culling.

[spotisub](#) – OpenSubsonic-compatible audio streaming backend powered by Librespot and Opus.

- Implements the OpenSubsonic API spec, streaming Spotify content via Librespot with Opus transcoding.

TECHNICAL SKILLS

Rust • Python • C/C++ • Java • GLSL • SQL • Pandas • Snowflake • Omni • HTML/CSS/JS • Leptos • Dart • Cargo •
Make • Systemd • Bash • HTTP/TCP/UDP/QUIC • Nginx • Apache • Git • Jira • Confluence

EDUCATION

Michigan Technological University – Houghton, MI
BS, Computer Science

Spring 2025