

Scott Linder

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EXPERIENCE

AMD Inc.

Boxborough, MA, USA

Senior Software Developer (Compiler Engineer)

Jan. 2018 – Present

- Improved LLVM-based compiler, with focus on debug info and GPGPU CodeGen.
- Drove discussions in upstream LLVM to improve debug info representation, including giving a talk[↗] at the 2022 LLVM Developers' Meeting, and writing a specification[↗] for the changes.
- Maintained high standard of thorough documentation, clean coding, and consistent testing.
- Interviewed many candidates with a focus on communication and code-review skills.
- Implemented MsgPack (de)serialization support in LLVM, with transparent support for YAML interoperability, to implement compact AMDGPU code object metadata.

CAE Center, Western Michigan University

Kalamazoo, MI, USA

System Administrator

May 2014 – Dec. 2017

- Managed team of System Administrators, scheduling them and delegating image creation.
- Upstreamed support for new data sources in Wikimedia to de-duplicate documentation.
- Leveraged unified documentation to ensure licensing compliance for all installed software.

Zoetis

Kalamazoo, MI, USA

Software Development Intern

June 2014 – Aug. 2014

- Ported legacy software to modern infrastructure.
- Improved internal data-entry workflows and Customer Service software utilities.
- Worked directly with end users to understand, document, and implement requirements.

EDUCATION

Western Michigan University

Kalamazoo, MI, USA

B.S. and M.S. in Computer Science

Sep. 2013 – Dec. 2017

- Graduated Summa Cum Laude, 4.0 GPA

PERSONAL PROJECTS

- RustPN[↗]: Interpreted stack-based language implemented in Rust.
- db[↗]: Simple x86_64 debugger implemented in C.
- irsh[↗]: Matrix/IRC chat bot implemented in Python and shell, emulating shell interface.

SKILLS

- Six years of professional experience writing modern C++ with a focus on leveraging types to enforce invariants and supplement documentation.
- Moonlighting as a Rust developer, developing a wrapper for the CMake command-line with a more consistent interface and support for project-specific idiosyncrasies.
- Fluency in Python, POSIX shell, Elixir, PHP, and TypeScript.
- Developed in various Linux-based OSes daily since early middle-school, including Ubuntu, Debian, Arch, and NixOS.
- OSS Contributions: Member of `llvm-project`. Patches accepted into `rust-clippy`, `neovim`.