James Leitch

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Profile

I am a software engineer and generalist, having worked professionally in the software industry since 2010. While the majority of my experience is working with performance conscious native code, I enjoy trying to understand and work on the whole picture, from the actual code being written, to the build and deployment automation, and developer workflow behind it. I am always looking for a challenge, and I enjoy working on fresh and interesting problems with other smart, motivated, and passionate people. I thrive in a cross-discipline environment and love helping content creators realize their vision.

I am presently working for my company, Consuming Chaos, developing a game using all the experience I've amassed. I am looking for full time work to continue to grow my skills and to help fund my sushi addiction.

Skills

Strong

- Rust / C++ / C
- Bazel
- Git
- Containerization (Docker)
- Native Code Optimization
- Collaboration with Content Creators
- FFI (Foreign Function Interface) / Scripting Integration

Proficient

- Nix / NixOS
- Kubernetes / Skaffold / Helm
- Windows / MacOS / Linux / iOS / Android
- GitHub Actions
- Postgres / SQL
- TypeScript / React / Redux
- HTTP REST / GraphQL
- Cross Compilation
- Perforce

Familiar

- Unity / Unreal Engine
- C# / Swift / Objective-C / Go
- 3D Math
- AWS
- OUIC
- Node / Node Native Modules
- Protobuf / gRPC
- Oculus VROS
- Jenkins
- Buck Build

Experience

Consuming Chaos

Founder — March 2023 to Present

- Developing a free-to-play PvP game targeting Windows, Mac, iOS, and Android.
- Software is being developed fully in Rust, which includes a 3D client targeting multiple platforms and a scalable backend running in the cloud.
- Tech stack includes NixOS development infrastructure, VSCode Remote targeting NixOS servers, Bazel build system (including cross compilation), and Skaffold + Kubernetes deployment.

Meta

Software Engineer (E5 - Tech Lead) — November 2021 to March 2023

- Provided technical leadership on the development and bi-weekly delivery of a web app responsible for managing, auditing, and visualizing networking equipment.
- Drastically improved onboarding time and continuous integration by leading a build/development environment unification initiative.

- Formalized release process with Quality Assurance and the other members of leadership, and in turn raised the confidence in release quality.
- Mentored junior engineers on software craft and architecture, with an emphasis on ensuring correctness and thinking about invariants.

Software Engineer (E5) — August 2020 to November 2021

- Worked with my Product Manager to refine a loosely defined objective into a set of concrete deliverables.
- Developed and shipped Meta Quest Developer Hub's Perfetto integration and performance tab.

Apple

Software Engineer (ICT4) — October 2018 to August 2020

- Shipped Reality Composer's support for USDZ as an export format.
- Worked with content creators and the Reality Composer team to optimize and deliver a collection of Augmented Reality experiences for the TV show For All Mankind.

Riot Games

Software Engineer (Mid) — September 2016 to June 2018

- Worked with several R&D teams to onboard them to the internal playtest tool and provided ongoing support.
- Replaced manually administered "patch boxes" used by many R&D teams with an automated solution using Terraform.

Software Engineer (Associate) — June 2014 to September 2016

- Contributed to the release of Gnar, Azir, Kalista, Rek'Sai, Tahm Kench, Aurelion Sol, and Ivern on League of Legends' Champion Team.
- Refactored League of Legends' animation system from the old proprietary data format to the new consistent game-wide format, including updating the bespoke tool and migrating all data.
- Operated in a live service development cycle that required releases every 2 weeks.

Electronic Arts

Software Engineer (SE 1) — May 2013 to May 2014

- Worked on numerous gameplay systems, including implementing a data driven buff system with client/server synchronization in the Frostbite engine.
- Shipped Plants vs Zombies: Garden Warfare.

Software Engineer (SE 1) — June 2012 to April 2013

 Worked on C# gameplay for an unannounced Unity game for Quicklime Studios prior to cancellation.

SMART Technologies

Software Developer (SD 1) — August 2011 to May 2012

• Worked on an R&D prototype of a multi-user, collaborative, infinite canvas web app.

Software Developer Intern — May 2010 to August 2011

• Worked on educational applications for the SMART Table.

Community Contributions

Blog

Consuming Chaos Blog (blog.consumingchaos.com)

 Posts detailing my experiences setting up managed developer environments, toolchain provisioning, cross compilation, and any other notable subjects I encounter during development of Consuming Chaos' first game.

Open Source

github.com/bazelbuild/rules_rust

- Fixed some linker invocation issues that arose during cross compilation.
- Added a check to prevent accidentally targeting a platform that `cargo-bazel` hasn't been configured to target.

github.com/rust-lang/rust-analyzer

- Added support for ProblemMatcher to handle diagnostics directly from `rustc` instead of just `cargo`.
- Miscellaneous fixes and enhancements to improve support for non-Cargo build systems.

Miscellaneous

Technical Editor on Game Coding Complete, 4th Edition

- Reviewed technical accuracy and provided subjective feedback to the authors, Mike McShaffry and David "Rez" Graham.
- Code reviewed the same code embedded alongside the chapters of the book.

Education

BSc in Software Engineering — 2012

University of Calgary