

Andrew Steurer

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SUMMARY

I'm a back-end developer who actively maintains and contributes to open source software. I have primarily worked with Rust and Golang in cloud-native and WebAssembly environments.

TECHNOLOGIES

- Rust, Golang, Python, TypeScript
- Amazon Web Services, WebAssembly
- Terraform, Pulumi, GitHub Actions
- Linux, Docker, Kubernetes

WORK EXPERIENCES

Open Source Contributor

Dec 2024 - Current | Remote

- Currently contributing to WebAssembly and observability tooling across multiple projects, working mainly with **Rust** and **Golang**.
- Making upstream contributions to 5+ tools and libraries as needs arise.

Cognizant - SDET

Feb 2025 - Current | Nashville, TN

Fermyon - Solution Engineer Intern

May 2024 - Sep 2024 | Remote

- Created demos and guides to help developers integrate WebAssembly into their application stacks.
- Built and made improvements to developer tools with **Golang** that helped boost productivity by 15.3%.
- Wrote several blog posts, [one of which](#) was among the top 10 most visited for 2024.

Conservice - Data and Reporting Analyst

Jan 2022 - May 2024 | Logan, Utah

- Used **Python** and **Amazon Web Services** to analyze large amounts of data and build reports for the executive team.
- Built, maintained, and improved automated processes using **JavaScript** for 5 different teams saving over 100 hours of manual work a week.
- Wrote and presented training materials for tools and processes I created.

CERTIFICATIONS

- AWS Certified Developer Associate
- AWS Certified Cloud Practitioner

EDUCATION

Bachelor of Science, Computer Science

Western Governors University

PROJECTS

OpenTelemetry WASI

github.com/calebschoepp/opentelemetry-wasi

- Co-authored WASI OTel, which is the standard for how OpenTelemetry is used in **WebAssembly**. WASI OTel was officially accepted by the WebAssembly organization on 2025/11/13.
- Creating SDKs for **Golang**, **Rust**, and **TypeScript** that implement WASI OTel.
- Currently have an [open PR](#) to add WASI OTel to the Spin WebAssembly runtime.

Fake OpenTelemetry Collector

crates.io/crates/fake-opentelemetry-collector

- Added a feature that allows for the collection of OpenTelemetry metric data.

Personal Cloud

- Set up a self-hosted cloud environment complete with a hypervisor, VLANs, a firewall, DHCP leasing, a multi-node **Kubernetes** cluster, and S3-compatible object storage.
- Currently managing multiple public-facing client web applications.

AWS Creds CLI Tool

github.com/asteurer/aws-creds

- Used **Rust** to build a command-line tool that makes it easier to manage and use temporary credentials for **Amazon Web Services**.

DNS Server

github.com/asteurer/dns-server

- Built a (mostly) RFC 1035 compliant DNS server in both **Golang** and **Rust** that can resolve and forward DNS queries.
- Code includes in-depth unit tests, bit manipulation, and recursion.

Spin OTel Plugin

github.com/fermyon/otel-plugin

- Used **Golang** to build a plugin for the Spin **WebAssembly** runtime that allows developers to use OpenTelemetry with their applications.
- Built a cross-platform **CI/CD** pipeline using **GitHub Actions** that creates versioned releases and canary builds.