

TANNER STURZA

SOFTWARE ENGINEER | BACKEND & SYSTEMS

tanner.sturza@gmail.com

(360) 601-6737

GitHub

LinkedIn

Profile

Software engineer focused on backend and systems development with experience building concurrent Rust services, distributed tracing infrastructure, and C#/.NET SDKs. Experienced with Rust, C#, Python, distributed systems, observability, PostgreSQL, Docker, and AWS.

Technical Skills	Languages	Rust, C#, Python, C++, TypeScript, JavaScript, SQL
	Backend	.NET, Flask, FastAPI, gRPC, Protobuf, Tokio, Entity Framework Core
	Frontend	React, Svelte
	Databases	PostgreSQL, SQLite
	DevOps & Cloud	AWS, Docker, Terraform, GitHub Actions, GitLab CI/CD

Experience / Open Source

Schemabound | Maintainer | 2025-2026 - Docs

- Architected a concurrent Rust execution engine using Tokio JoinSet and priority queues to orchestrate deterministic agent operations against enterprise data.
- Developed an async-first C#/.NET SDK with gRPC/Protobuf middleware and Entity Framework Core integration, enabling dynamic LLM schema discovery through attribute-based registration.
- Implemented client-side SQL validation, automated JSON-schema generation for LLM consumption, and event-driven audit logging to mitigate prompt-injection risks.

Carb-Visor | 2023-2025

- Re-architected core backend microservices from Python to Rust, reducing P99 latency by 95% while supporting 10k+ concurrent connections.
- Built a Svelte/WebSocket telemetry dashboard for high-frequency data streams, achieving <16ms render times.
- Deployed real-time edge-computing software to Google Cloud using OpenCV for object detection and telemetry ingestion.

Projects

PyTrace | 2025-2026

- Built a Python distributed-tracing framework using sys.settrace() for automatic function instrumentation and latency analysis.
- Designed modular telemetry collectors supporting multiple persistence backends, including SQLite and batch-memory storage.
- Built a React/TypeScript observability dashboard for real-time visualization of execution spans, error rates, and performance bottlenecks.
- Developed 179 unit and integration tests covering instrumentation, collectors, sampling, persistence, and trace propagation.

Education

Bachelor of Science Computer Science Western Governors University 2025

ITIL 4 Foundation 2025

LPI Linux Essentials 2025

Big Data with PySpark 2023