

# Lukas Malkmus

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📍 Frankfurt am Main, Germany

*Building software that lasts.*

Senior software engineer with 7+ years on distributed databases and observability infrastructure in Go. Experience across query execution, storage, transport and service layers, and developer tooling. Maintainer of **axiomhq/axiom-go** and several other open-source projects. Building and using AI agents in day-to-day engineering work.

## Skills

Programming	Go · Rust · JavaScript/TypeScript · Python · C · C++ · C# · Java · PHP
Data	PostgreSQL · Redis · Apache Parquet · Apache Arrow · object storage
APIs	HTTP/REST · gRPC · Protocol Buffers · OAuth2 · OpenAPI
Observability	OpenTelemetry · Prometheus · Grafana · Jaeger · Pyroscope · Sentry · Honeycomb
AI & Agents	MCP · Agent Skills · coding agents (Claude Code, Codex)
AWS	Lambda · S3 · SQS · KMS · DynamoDB · EKS
Infra	Kubernetes · Terraform · Docker · GitHub Actions · Linux
VCS	Git · Jujutsu (jj)
Languages	German (native, C2) · English (full professional, C1)
Interests	cycling · running · hiking · 3D printing · home automation (Home Assistant, ESPHome)

## Experience

Axiom, Inc.

*Remote*

SENIOR SOFTWARE ENGINEER (EVENTDB, FOUNDATIONS)

*2025 – Present*

- Refactoring EventDB's query execution pipeline. Designed and implemented the critical path that unblocks future query features and removes long-standing system limitations
- Continue to maintain and evolve **axiomhq/axiom-go** and adjacent OSS as the publicly visible API surface for the platform

Go distributed systems query execution column store

SOFTWARE ENGINEER

*2018 – 2025*

- Joined Axiom in 2018 when the team was under ten engineers, and grew with the codebase, OSS surface, and developer workflows as the team scaled to around thirty
- Designed and implemented HTTP and REST APIs, OAuth2 authentication, and the database service and transport layer
- Built OpenTelemetry-based AI engineering features (annotations, user feedback, online evaluations) and the OTel ingest layer
- Authored and maintained public Go client libraries (**axiomhq/axiom-go**, **axiomhq/cli**), the **axiomhq/actions** GitHub integration, and release automation across the organisation

Go TypeScript Python OpenTelemetry OAuth2

SOLEDOS GmbH

*Gründau, Germany*

SOFTWARE ENGINEER

*2017 – 2018*

- Developed the main business application in PHP and JavaScript
- Prototyped a custom LED matrix panel for data visualisation

PHP JavaScript hardware prototyping

## Open Source

**axiomhq/axiom-go**

*github.com/axiomhq/axiom-go*

MAINTAINER

*go*

*2020 – Present*

- Official Go client library for the Axiom event database. Designed the public API and shipped breaking changes across multiple major versions

Go client library API design

CLIs for AI agents

*github.com/lukasmalkmus*

AUTHOR

*2025 – Present*

- Multiple command-line tools (**pngx** for Paperless-ngx, **money** for banking, **lnit** for free camping spots) that ship MCP server interfaces and Agent Skills so AI agents can use them as first-class tools
- Day-to-day power user of coding agents (Claude Code, Codex CLI) in professional engineering work

Rust AI agents MCP Agent Skills

## Various smaller projects

AUTHOR AND CONTRIBUTOR

[github.com/lukasmalkmus](https://github.com/lukasmalkmus),

[github.com/axiomhq](https://github.com/axiomhq)

2017 – Present

- **lukasmalkmus/rpi\_exporter**, a Prometheus exporter for Raspberry Pi metrics. Distributed over 7M times via Docker alone
- Further Prometheus exporters, Go client libraries, and editor tooling. Contributor to **axiomhq/cli**, **axiomhq/actions**, and release automation across the Axiom organisation

[Go](#) [Prometheus](#) [OSS](#)

## Education

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Technische Hochschule Mittelhessen

B.Sc. COMPUTER SCIENCE (INFORMATIK)

*Gießen, Germany*

*2018 – Jan 2022*

- Thesis: “Implementierung einer verteilten, konsensfreien Datenbank” (distributed, consensus-free database design and implementation)
- Combined with engineering work at Axiom

[distributed systems](#) [databases](#)

Bundeswehr (German Armed Forces)

VOLUNTARY MILITARY SERVICE

*Germany*

*Jan – Jul 2015*

- Basic and follow-on training, seven-month voluntary service.