Mauri de Souza Meneguzzo

Senior Software Engineer

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work

2024 - ongoing

SENIOR SOFTWARE ENGINEER, OPENTELEMETRY *Elastic* **Remote / Full-time**
- Part of the Ingest Data Plane team, enhanced observability in Elastic products.
- Developed Elastic Agent, Integrations, and Beats enhancements.
- Strong focus on open source and collaboration; most of my work is publicly available.
- Drove the usage of OpenTelemetry APIs and improvements to EDOT (Elastic's OpenTelemetry Collector).
- Contributed to the integration of an OpenTelemetry Collector within Elastic Agent, with the end goal of making it the default operation mode.
- Participated in the migration of standalone Beats to be OpenTelemetry Receivers.
- Elastic Agent in OTel mode achieved a consistent 50% memory reduction and significant CPU savings across use cases by running Elastic Agent in OpenTelemetry mode, outperforming the previous implementation.
- Contributed to the OpenTelemetry project, focusing on the elasticsearchexporter and the contrib repository.
- Hands-on experience with the ELK Stack (Elasticsearch, Logstash, Kibana), gained through daily work and specialized training.
- Collaborated closely with cross-functional teams to ensure seamless OpenTelemetry integration across Elastic's ecosystem.
- Participated in the Support Dev Rotation, triaging complex bugs, addressing security vulnerabilities, and supporting escalated customer issues.

2022 - 2024

FULL STACK SOFTWARE ENGINEER *Meisterwerk* **Remote / Full-time / Germany**
- Collaborated with cross-functional teams to deliver high-quality software solutions that meet business and user requirements.
- Provided guidance and mentorship to the engineering team on best practices and standards.
- Designed and implemented HTTP and gRPC microservices using Golang, ensuring security, scalability, and maintainability of the system.
- Debugging and profiling techniques using tools such as Delve and pprof, finding memory and cpu bottlenecks.
- Improved app build times by 64% by leveraging caching and parallelization.
- Exploratory Data Analysis and visualization using Python and Pandas.
- Implemented automated vulnerability scanning and static code analysis in CI/CD pipelines.
- Maintained a mobile app using React Native.

2021-2022

ASSOCIATE / FULL STACK SOFTWARE ENGINEER *Bucks App / Startup (finance)* **Remote / Full-time / USA**
- Entered Mercury Raise Round IV for startups.
- Developed secure Go and NodeJS systems on AWS, integrated with financial solutions.
- Implemented cryptographically secure systems to ensure data integrity and confidentiality.
- Mobile app development with React Native

2016-2021   **CTO / LEAD SOFTWARE ENGINEER** *3CPLUS - SAAS (communications)* **Remote / Full-time**
- Managing a team of 6 engineers, company achieved a MRR growth of 120% in 2020.
- Scaled a realtime system to handle thousands of concurrent users and millions of events per day.
- Modeled a reliable ingestion system for a PowerBI data lake.
- Independently built an open-source Kubernetes Health Check operator for automated status dashboards.
- Improved AI projects with Tensorflow 2 and state-of-the-art techniques, resulting in a 10x speedup in inference and a 20x reduction in resource usage.
- Led a team of engineers on the project migration to GCP and Kubernetes.
- Adapted and extended all parts of the system to work in a distributed architecture, scalable horizontally.
- Developed REST, GRPC and Websocket APIs in Go, NodeJS and PHP.
- Developed Asterisk PABX modules in Rust/C to optimize telephony routines.
- Software and API documentation with OpenAPI and PlantUML.
- Continuous Integration and Delivery with Gitlab, automated builds and deploys with zero downtime.
- Research on Deep Learning for mailbox detection resulted in a 70% increase in accuracy.
- Developed an event broker to serve high-throughput events through different real-time protocols.

2015-2016   **SOFTWARE DEVELOPER** *Freelancer*
- Web applications using PHP/Laravel and VueJS.

2014-2015   **IT ASSISTANT, PRIVATE RANK** *6th Comms Bn of the 6th Div, Brazilian Army* **Onsite / Full-time**
- Linux server administration, network management, and IT support.
- Collaborated on the development of a real-time dashboard system for the command center.
- Signal Corps, went to army reserve with a honorable mention.

Projects

As a member of the Go project, I've made substantial contributions to the language, runtime and ecosystem. I was awarded the 2024 Google Open Source Peer Bonus for my work on the Go project.

As a member of the Kubernetes project, I actively engage with the community to advance its development by fixing bugs, improving documentation, and participating in discussions to support feature development.

As a member of the OpenTelemetry project, I have helped to improve the quality and performance of the project by fixing bugs and adding new features. My main focus has been on the elasticsearchexporter and the contrib repository. I was nominated Top Contributor at KubeCon EU 2025.

At Elastic, I was part of a small "skunk works" team focused on experimental projects, including EDOT (Elastic Agent as an OpenTelemetry Collector), the migration of Beats to OpenTelemetry receivers, and contributions to the OpenTelemetry ecosystem to help guide and advance it as the industry standard for observability. This work helped shape the future of observability and ensure Elastic's solutions remain relevant moving forward.

education

2024-2025   **POSTGRADUATE SPECIALIZATION IN CYBERSECURITY AND DEFENSE** *Uninter, Brazil*
- Introduction to Software Simulation in Combat and Armored Warfare - *UFRGS, Brazilian Army*

| 2023-2024 | **POSTGRADUATE SPECIALIZATION IN DATA SCIENCE AND AI** *Uninter, Brazil* |

Related coursework:

- Fundamentals of Neuroscience Program - *Harvard, EdX*
- Integrative Neuroscience - *UFRGS*
- Neurology of Learning - *IFSUL*
- Sentiment Analysis and introduction to Natural Language Processing - *UFRGS*

| 2017-2021 | **BTECH IN IT WITH A FOCUS ON SYSTEMS ANALYSIS AND DESIGN** *Uniftec, Brazil* |

languages

Portuguese (native)
English (fluent)

skills

Techs:	Golang, Rust, PHP, Python, TypeScript/JS, C, Bash
Fields:	Distributed Systems, AI, Cloud Computing, Web, Product Management, Cybersecurity
DevOps:	Docker, Kubernetes, AWS, GCP, Gitlab
Processes:	JIRA, Monday, Agile, Scrum, Kanban, OKR's

I propose to consider the question: "Can machines think?" — Alan Mathison Turing

Work hard. Dream big. Stay humble.