

Alex Fischer

Backend Engineer

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Summary

Backend engineer specialized in Rust and cloud-native architectures. Passionate about building fault-tolerant distributed systems and optimizing asynchronous workflows. Interested in advancing smart mobility through scalable microservices and event-driven design.

Skills

Languages: Rust, TypeScript, Go, Python
Frameworks: Actix, Tokio, React, Nest.js, Prometheus
DevOps: Kubernetes, Helm, GitLab CI, Docker
Core Competencies: Concurrency, Systems Programming, Observability, CI/CD
Cloud: AWS Lambda, GCP, Serverless Framework, Docker

Experience

- Backend Engineer**, Tech Innovations GmbH - Berlin, GER

Oct 2024 - today

 - Architected a Rust-based event streaming platform processing 25M+ messages/day with near-zero downtime.
 - Developed async Rust microservices using Tokio runtime to reduce latency by 40%.
 - Implemented custom AWS Lambda authorizers in Rust to secure APIs with minimal cold start overhead.
 - Built a Next.js dashboard for real-time monitoring of fleet telemetry data, integrated with Prometheus metrics.
 - Collaborated in agile squads across multiple time zones using GitLab CI/CD pipelines.
- Software Developer / Product Liaison**, Tech Innovations GmbH - Berlin, GER

Sep 2023 - Sep 2024

 - Translated complex product requirements into scalable backend solutions with Rust and Go.
 - Led sprint planning and backlog grooming to align engineering efforts with business goals.
 - Enhanced customer support tools by integrating Rust-powered data processing pipelines.
- Intern Developer**, Tech Innovations GmbH - Berlin, GER

Jul 2021 - Aug 2023

 - Created a prototype chatbot leveraging Rust FFI bindings to Python ML models for fast inference.
 - Analyzed telemetry data streams and optimized data ingestion using async Rust.
 - Developed unit and integration tests to ensure robustness of data analytics modules.

Projects

- Rust-Powered Enterprise Chatbot**

View

Designed a hybrid chatbot system combining Rust backend services with domain-specific knowledge retrieval to improve response accuracy and reduce latency in enterprise environments.
- Developer Portfolio**

View

Created a responsive portfolio site showcasing Rust projects, cloud-native applications, and contributions to open-source async runtimes.

Education

- Technical University of Berlin** (Berlin, GER): **B.Sc. Computer Science** - 1.6

Oct 2019 - Sep 2023
- Berlin International School** (Berlin, GER): **High School Diploma** - 1.8

Sep 2015 - Jul 2019