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 (Go to article)
Designed a hybrid chatbot system combining Rust backend services with domain-specific knowledge retrieval to improve response accuracy and reduce latency in enterprise environments. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua

Portfolio (Go to portfolio)
Feel free to explore more of my fun projects showcasing various technologies on my website or GitHub.

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