

# Irek Zagan

Dedicated Software Engineer with ~6 years experience in backend server development using Rust - Seeking new opportunities in Rust or any relevant backend programming language.

Norway

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<https://izanagi.no>

## EXPERIENCE

### PitchLabs inc., Remote— Senior Rust Engineer

SEPTEMBER 2025 - CURRENT

- **Architected and developed microservices backend in Rust** for mobile gaming platform with 6+ services communicating via gRPC, serving GraphQL API and WebSocket real-time message streaming.
- **Implemented complex game systems** including match simulation engine, squad management, league rankings, user progressions and matchmaking.
- **Built scalable data infrastructure** using PostgreSQL, Redis, compile-time query validation (`sqlx`), and automated schema migration pipelines.
- **Established robust DevOps practices** with automated testing, pre-push hooks, GitLab CI/CD pipelines, and blue-green deployments to staging/production environments.
- **Built custom test infrastructure** using Cargo `xtask` for local service orchestration, integration testing, and developer tooling alongside comprehensive unit/integration test suite.

### NXLog, Remote— Senior Rust Engineer

MARCH 2025 - JULY 2025

Extending NXLog observability platform with new functionality

- Maintenance of legacy observability/ log agent management service
- Migration of legacy key/value based monolith into a cloud first , PostgreSQL based service
- Designing and implementing and complex DSL based API
- Redesigning and improving existing CI/CD pipelines. Primarily with OpenNebula templating + GitLab Runner, optimized for Rust builds.

### Freque.io, Germany— Rust Software Engineer

OCTOBER 2024 - MARCH 2025

Short-term tasked with documenting and maintaining an abandoned codebase for a composer collaboration platform.

- Server maintenance and deployment with Nix

## SKILLS

### Strong:

Rust, (Async, Tokio, Axum), Kafka, Kubernetes, Docker, Podman, Linux, Elasticsearch, Redis, PostgreSQL, CI/CD, GitLab,, GraphQL

### Mid:

Nix, Python, Bash, Java, RabbitMQ

## LANGUAGES

English, Norwegian, Polish

- Implementation, maintenance, and documentation of the existing platform software.

## **Playbook Engineering, Poland— *Team Lead/Rust Software Engineer***

JUNE 2023 - JUNE 2024

Promoted to position of Team Lead - Still about 95% focused on coding

- Tasked with leading a team of developers
- Documentation, designs, decision making
- Maintenance and development of new features.
- Production server responsibility and ownership - deployments, approvals
- Point of contact with business/customers

## **Playbook Engineering, Poland — *Rust Software Engineer***

MARCH 2022 - JUNE 2023

Joined a small team to build a central bookmaking backoffice for internal traders' use from scratch.

- Greenfield project for bookmaking business
- Building Axum powered REST APIs for a greenfield SaaS project
- Creating software to collect, normalize and distribute real-time sport data sourced from external providers over to internal microservices based ecosystems.
- Rewriting legacy software written in Scala, Java and C# over to Rust
- Rust, ScyllaDB, ElasticSearch, Redis, Kubernetes, Couchbase, Grafana, Opentelemetry, Docker, Linux

## **GenesisMobo Sp. z o.o., Poland— *Rust Software Engineer***

JANUARY 2020 - MARCH 2022

Joined a company focused around public transportation industry

- Developed and maintained distributed microservices; telemetry, public transport routing, CCTV monitoring.
- Created and implemented database designs for PostgreSQL
- Managed and configured Gitlab CI/CD pipelines
- Worked on distributed embedded systems with MQTT messaging (including writing a MQTTv5 encoder/decoder for no\_std in pure Rust)
- Embedded development: Drivers for SIM card handling written in Rust
- Participated in a greenfield SaaS project powered by Rust, PostgreSQL, Apache Kafka with Rocket based REST APIs and Tokio
- Rust, PostgreSQL, Kafka, Redis, HashiCorp Nomad, Docker, Linux

## **Raiffeisen Polbank/DXC Technology, Poland— Junior T24 Consultant/Data Analyst**

NOVEMBER 2018 - JANUARY 2020

- Completed a training course in Temenos T24 Transact Core Banking System
- Primarily tasked with developing migration and analytical tools.
- Took part in a large-scale migration of customer's data for the merger of BNP Paribas
- Heavily focused on data analysis in preparation for BNP merger.

### **PROJECTS**

#### **evdev-remap** — *Per-window evdev input remapper for Linux/Wayland*

<https://github.com/irexiz/evdev-remap>

Remap scroll wheel to mouse clicks when a specific window is focused.

#### **GTFS Parser** — *Parser for Google's General Transit Feed Specification*

<https://github.com/irexiz/gtfs-parser>

Developed as a personal project with intent of using it for work (GenesisMobo)

#### **gmqtt** — *MQTT5 packet encoder/decoder without std or alloc*

<https://gitlab.com/genesismobo/gmqtt>

Open source tool developed at work for encoding/decoding MQTTv5 packets in a no-std (baremetal) environment.

#### **Pengine** — *Payment Engine*

<https://github.com/irexiz/pengine>

Toy project for processing transactions akin to what you'd see in stock/crypto exchanges.