

# IHOR ANDRIANOV

## SOFTWARE ENGINEER

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Ukraine, Odesa

Backend Engineer with 3+ years of experience building scalable distributed systems in Rust and Node.js. Specialized in distributed systems, CQRS/Event Sourcing, high-performance async processing, and database optimization. Proven track record delivering mission-critical infrastructure for healthcare and parking management systems processing millions of daily operations.

Featured in Turso community spotlight for open source database contributions: [Here](#)

## EXPERIENCE

### SOFTWARE ENGINEER

Favbet tech | Jun 2025-Nov 2025

#### CQRS/ES Service

- Built secure document signing platform processing 1000+ signatures/day using CQRS/Event Sourcing with saga pattern for distributed workflows.
- Integrated Ukrainian PKI cryptography (UAPKI) via custom Rust FFI bindings with PKCS#12 certificate management and encryption
- Implemented multi-tenant RBAC, event-driven projections, and Tokio async workers with OpenAPI documentation and Prometheus monitoring

#### Backend for Computer Vision project

- Architected video processing platform handling large-scale uploads with chunked transfers, AWS S3 integration, and FFmpeg optimization
- Delivered hierarchical folder system with granular sharing permissions and AI/ML model integration for automated video analysis
- Implemented security layer: session auth, TOTP 2FA, Argon2 hashing, AES-GCM encryption, rate limiting, containerized deployment

### BACKEND DEVELOPER

Sweet Stack Digital | Jan 2022-Jun 2025

#### Backend Development for Parking Aggregator

- Architected and implemented high-performance backend processing 5,000+ UK parking locations using Fastify and PostgreSQL
- Reduced location-based search latency by 60% using Redis and BullMQ with async task queues
- Integrated ELK Stack, Logstash, Kibana for monitoring and log analysis; built scalable REST/GraphQL APIs supporting multiple frontend clients
- Implemented automated queries using PostGIS for geospatial operations for radius based parking search

#### Sales Automation

- Engineered high-performance backend and Chrome extension automating UpWork job scraping, reducing manual application time by 90%
- Built intelligent job matching using OpenAI Assistant API, improving conversion rates by 80% and reducing response time to under 3 seconds
- Developed automated ranking system analyzing historical success rates, eliminating manual sales management overhead

#### Technical Leadership

- Led adoption of TypeScript, property-based testing, and ESLint for improved code quality across mission-critical services
- Built internal CLI tools reducing service setup time from 1-2 hours to minutes for database seeding and API mocking
- Researched and prototyped emerging technologies with 48-hour notice, securing 3 new enterprise contracts.

## SIDE PROJECTS

### **Turso\_OLTP Database (Open Source):**

- Developed the initial implementation of the json binary protocol, enabling fast and efficient json manipulations.
- Built SQLite binary JSON parser, enabling Change Data Capture (CDC) features used in production.
- Optimized GROUP BY and ORDER BY query planning, achieving 50% performance improvement for analytical queries by eliminating redundant loop operations.

## TECHNICAL SKILLS

- Languages: Rust, TypeScript/Node.js, Go, SQL
- Frameworks: Axum, NestJS, Fastify, Tokio, SQLx
- Databases & Caching: PostgreSQL, Redis
- Cloud & Infrastructure: AWS S3, Docker
- Architecture Patterns: CQRS/ES, Event Sourcing, Microservices, REST/GraphQL APIs
- Tools: FFmpeg, Prometheus, ELK Stack, OpenAPI