

# VLADIMIR ĆIRKOVIĆ

Backend Engineer · Software Architect · Tech Lead

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## SUMMARY

Backend engineer and architect with 18+ years building high-performance distributed systems. Deep expertise in Go, Java, Scala, and Kotlin across fintech, cryptocurrency platforms, gaming, and e-commerce. Track record of designing scalable microservices, event-driven architectures, and mission-critical payment systems processing millions of transactions.

## TECHNICAL SKILLS

**Languages:** Go, Java, Scala, Kotlin, TypeScript, Swift

**Architecture:** Microservices, Event Sourcing, CQRS, Event-Driven Systems, Domain-Driven Design

**Infrastructure:** AWS, GCP, Kubernetes, Docker, PostgreSQL, MySQL, MongoDB, Kafka, RabbitMQ

**Practices:** Platform Engineering, Observability, SRE, CI/CD, TDD, Agile/Lean

## EXPERIENCE

### Senior Software Engineer — Toggl

Apr 2024 – Present · Remote

- Migrated trial management from Stripe to in-house system, enabling custom trial logic, flexible start/end dates, and granular feature gating
- Scaled and hardened Stripe webhook pipeline, improved latency, error handling, and reliability for payment event processing
- Refactored billing flows from synchronous HTTP to event-driven architecture, decoupling billing and accounts services
- Implemented grace period invoicing to recover revenue by charging for usage accrued before payment failure
- Shipped domain-organization-join experiments to optimize team onboarding conversion

Go · PostgreSQL · Google Cloud · Microservices

### Senior Software Engineer — BVNK

Mar 2023 – Apr 2024 · Remote

- Built core crypto payment infrastructure: payins (address generation → on-chain detection → settlement) and payouts to external wallets
- Implemented mass payout system for batch crypto disbursements (payroll), handling hundreds of transactions per upload
- Designed distributed wallet pooling: pre-generating wallets to cut creation latency and absorb traffic spikes
- Improved platform reliability, reduced downtime and failed transaction rates

Java · Spring Boot · Kafka · MySQL · Event Sourcing · AWS

### Tech Lead — Vroom

Feb 2021 – Mar 2023 · Remote

- Led Checkout team owning the checkout flow backend for used car e-commerce platform
- Built integrations with vehicle data providers and financing partners powering purchase transactions
- Ran checkout flow experiments to optimize conversion and increase revenue
- Drove hiring, architecture decisions, code reviews, and sprint planning

Go · Kafka · PostgreSQL · Kubernetes · Docker · AWS

## Senior Software Engineer — RMS (acquired by Moody's)

Apr 2019 – Feb 2021 · Remote

- Built ExposureIQ backend from scratch: Java/GraphQL service aggregating data from multiple sources, serving portfolio managers analyzing millions of insured locations for catastrophe risk
- Designed TreatyIQ reinsurance platform in Kotlin using event sourcing and CQRS, enabling detailed audit trails for regulatory compliance
- Developed Risk Modeler components in Scala using purely functional programming (Cats), improving code predictability and testability

Java · Kotlin · Scala · Spring Boot · GraphQL · Event Sourcing · CQRS

## Senior Software Engineer — Relax Gaming

May 2016 – Apr 2019 · Remote

- Built scalable game server for daily fantasy platform using Java microservices and async event processing
- Developed slot machine engines with certified RNG algorithms meeting international gaming compliance standards

Java · Spring · RabbitMQ · PostgreSQL · Microservices

## Team Lead — Interactive Data (now ICE)

Mar 2013 – May 2016 · Remote

- Led development of PrimeTerminal, Java desktop application for private banking and asset management used by major financial institutions
- Directed S&P CapitalIQ's largest customization projects, improving delivery speed and client satisfaction

Java · Swing · MongoDB · Spring · Financial Data

## Software Engineer — Vast.com

Oct 2006 – Mar 2013 · Remote

- Built high-performance data processing pipeline for big data workloads, improving throughput and data quality
- Developed text parsing and normalization engine using tries for efficient keyword matching

Java · Big Data · Parallel Processing · Text Mining

## EDUCATION

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### Master of Science, Informatics and Software Engineering

University of Belgrade, Faculty of Organizational Sciences · Serbia