

## SUMMARY

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Software engineer with 10 years of experience, focusing on distributed systems and blockchain infrastructure. Active open source contributor (Bitcoin Development Kit). Track record of scaling systems from MVP to production and optimizing high-load services.

## SKILLS

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- **Programming Languages:** Rust, Scala, Kotlin, Java, Solidity
- **Databases:** PostgreSQL, ClickHouse, Redis
- **Infrastructure:** Docker, Kubernetes, AWS, GitHub Actions
- **Monitoring:** Grafana, Prometheus, Loki

## EXPERIENCE

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### Haqq Network | Jun 2024 - Present | Remote

*Staff Software Engineer*

- Developed a blockchain indexer for Cosmos and EVM-compatible L1 network
- Built a proxy backend service for token swap service with usage statistics collection
- Architected a data analytics service aggregating blockchain and DEX data into ClickHouse for real-time analytics
- Developing a backtesting engine for trading strategies across multiple exchanges

**Skills:** Rust (tokio, actix-web, alloy, tonic), ClickHouse, PostgreSQL, Grafana, Docker, Posthog

### Rho Labs | Nov 2022 - Feb 2024 | Remote

*Core Platform Engineer*

- Developed backend services in Rust, TypeScript and Go for the fintech startup
- Built and deployed smart contracts in Solidity to testnet and mainnet
- Set up observability stack: Grafana dashboards, Loki for logs, Prometheus for metrics in Kubernetes

**Skills:** Blockchain, Smart Contracts, Rust, Go, Solidity, EVM, TypeScript, Kubernetes, Grafana, Prometheus, AWS

### Web3 Tech | Aug 2021 - May 2023 | Remote

*Senior Software Engineer*

- Developed and maintained a blockchain node written in Scala with smart contract support in a Dockerized environment
- Prepared internal library codebase for public release and published it as open source
- Extended smart contract functionality and built decentralized file storage components using PostgreSQL and S3-compatible solutions

**Skills:** Scala, Docker, Kubernetes, PostgreSQL, Blockchain, Smart Contracts

### X5 Retail Group | Aug 2019 - Apr 2021 | Moscow, Russia

*Senior Backend Engineer*

- Scaled a project from MVP stage, growing the user base from 9 to over 9,000 users
- Optimized system performance through load testing, increasing capacity from 100 RPS to 1000 RPS
- Mentored junior developers
- Improved Kubernetes deployment configurations, reducing memory usage by 25% and CPU utilization by 20%

**Skills:** Scala, Kotlin, Java, JVM, Spring Framework, Kubernetes, Docker, PostgreSQL, Redis, Kafka, Microservices

**AlfaStrakhovanie** | Aug 2018 - Aug 2019 | Moscow, Russia

*Backend Developer*

- Developed and maintained microservices using Java and Kotlin
- Managed deployment of services in Kubernetes, set up CI/CD pipelines
- Configured code linting and integrated it into the build process

**Skills:** Java, Spring Framework, Docker, PostgreSQL, Ansible, Linux, Elastic Search, CI/CD

**AT Consulting** | Apr 2017 - Jul 2018 | Moscow, Russia

*Backend Developer*

- Maintained and extended legacy Java applications (Java 6) for enterprise clients
- Developed new features as part of a cross-functional team

**Skills:** Java, Spring Framework, PostgreSQL

**CDNvideo** | Dec 2015 - Mar 2017 | Moscow, Russia

*Software Developer*

- Developed and maintained in-house RESTful API using Python and JavaScript
- Conducted stress tests and performance tuning for Python services utilizing Cassandra storage
- Implemented a prototype video player by creating a plugin for the VAST standard
- Accelerated the creation of new customer accounts from 3 days to 3 hours using Python and Puppet

**Skills:** Java, Python, JavaScript, Perl, Docker, PostgreSQL, Cassandra, REST API, Puppet

## **CONSULTING**

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**Copper** — Jan 2023 - Feb 2023 — Remote

Technical Recruitment Advisor (Rust)

- Provided technical expertise for evaluating Rust programming candidates
- Conducted technical assessments and code reviews for test assignments

## **EDUCATION**

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**MIREA (Russian Technological University)** | Jan 2017 | Moscow, Russia

*Master's Degree in Engineering, Aircraft and Rocket Engine Design*

## **OPEN SOURCE & PRESENTATIONS**

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**bdk-cli** (Bitcoin Development Kit) — Contributor

- Implemented Taproot descriptor support for Miniscript compilation
- Developing unspendable key generation feature for enhanced privacy (BIP-341)
- Implementing descriptor verification for proving random key derivation

## **Talks**

- "How we migrated from Java to Scala in high-load project" - YouTube