

Artem Sholokhov

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Summary

Hands-on software engineer with 14 years of experience designing and scaling distributed systems, data platforms, and developer tooling. Scaled products from 1K to 2.5M MAU across EU, US, and Asia. Deep expertise in Scala, stream processing, and cloud-native architecture. While building and leading engineering organizations (40+ hires), I remained deeply involved in system design, platform development, and cost/performance optimizations.

Skills

Engineering	Algorithms & Data Structures, Object Oriented Programming, Functional Programming, Design Patterns, Parallelism & Concurrency, Stream Processing, TDD/BDD, Performance Optimizations, Observability & Monitoring
Languages	Scala (cats, cats-effect, fs2, http4s), Java, Go, Python, Rust, C++, TypeScript, PHP, SQL
Architecture	Microservices, SOA, Monoliths, Domain-Driven Design (DDD), Event Sourcing, CQRS, Cloud-native & Distributed Systems, Cloud Patterns
Data & Storage	ClickHouse, PostgreSQL, MySQL, MongoDB, Elasticsearch, Redis, Kafka, Airflow, S3/GCS
DevOps & Cloud	Linux, Nix, Docker, Kubernetes, Git, Bazel, Monorepos, CI/CD (GitHub Actions, GitLab CI, CircleCI, ArgoCD), Google Cloud Platform, Prometheus, Grafana, Jaeger, OpenTelemetry, Networking (OSI model, Protocols)
Leadership	Mentorship & Coaching, Cross-team technical leadership, Architecture roadmaps, System design reviews
APIs	REST, GraphQL, gRPC/Protobuf
Languages (Spoken)	English (fluent), Russian (native), Dutch (B1)

Experience

Director of Engineering, XITE Networks – Amsterdam, The Netherlands September 2020 - Now

Scala (cats, cats-effect, fs2, http4s, circe, scalatest), Python, Bazel, gRPC, Protobuf, GCP, Kubernetes, Kafka, Prometheus, Grafana, OpenTelemetry, Jaeger, ArgoCD, ClickHouse, AirFlow, MongoDB, PostgreSQL, Redis, GraphQL

- Designed and maintained core developer platform: Bazel build system, comprehensive observability stack (structured logging, metrics, distributed tracing via OpenTelemetry and Jaeger), infrastructure cost analysis and optimization, and AI-powering developer tools including company-wide MCPs and CLI tooling.
- Introduced DevOps/GitOps and MLOps practices around Bazel-managed mono-repository, reducing deployment cycles from hours to minutes (with full test coverage) and enabling code and infrastructure sharing across all products and teams.
- Led technical integrations with major platforms by working directly (on-site) with partner engineering teams - including XITE SDK integration for Amazon Fire TV and Vevo.
- Rebuilt data infrastructure from scratch with dramatically simplified data stack and **reduced running costs by more than 85%** (ClickHouse, Superset and AirFlow). New stack **became a critical enabler for ML-powered Recommendation Systems** and **unlocked the adoption of data-driven business decisions** and various experimentation strategies (AB-tests, Multi-Armed Bandits).
- Built the engineering organization (40+ hires across Data Engineering, Backend, Ops and ML teams) while remaining hands-on in architecture decisions and platform development.

Sr. Software Engineer, XITE Networks – Amsterdam, The Netherlands June 2018 - September 2020

- Started with a green field personalized music television project, built core product and scaled services across EU, US and Asia (**from 1K to 2.5M MAU**) with the team of 4 developers (grew to 25+ during later stages).
- Designed and built sophisticated AdTech stack and IAM/IAP integrations with various platforms (e.g. Roku, Apple, Amazon), which are the **main sources of revenue** for the company.

Sr. Software Engineer, JettyCloud (RingCentral) – St. Petersburg, Russia October 2016 - May 2018

Scala (Akka, cats, cats-effect, fs2, http4s, circe), SBT, Angular 5, gRPC, Protobuf, Docker, Kubernetes, Kafka, Prometheus, Grafana, Gitlab, Tensorflow

- Designed and developed a Data Aggregation Hub platform using Event Sourcing, CQRS, and concurrent multi-source stream processing, forming the foundation for new company products and reduced running costs by nearly 10×
- Developed next-generation near real-time products based on new platform, including Quality of Service monitoring, Live Calls Monitoring, and Historical Reports for call center analytics.
- Trained and deployed an experimental ML model for Quality of Service prediction based on RTCP metrics, which quickly became the primary source for call quality scoring.

Software Engineer, NetCracker – St. Petersburg, Russia November 2015 - October 2016

Java, Kafka, Elasticsearch, Redis, Jenkins, Ansible, Docker, DevOps, Microservices

- Designed and developed a new Search Engine leveraging Change Data Capture and Apache Kafka, reducing time-to-index by 40%
- Supported the company's internal high-availability service router with bug fixes and performance improvements.

Software Engineer, Seventest R&D Center – St. Petersburg, Russia November 2012 - November 2015

C++ (Qt, CORBA, boost), PHP, Web (AngularJS, Drupal), PostgreSQL, MySQL, Memcache

- Optimized the Billing Engine for interconnect traffic, reducing computation time by 25×.
- Designed and delivered full-stack features and improvements across Service Quality Management, Revenue Assurance, Network Testing, and Telecommunications Fraud Management solutions.

Lab Assistant, The Bonch-Bruevich SUT – St. Petersburg, Russia January 2012 - July 2016

- Developed an internal judging system for programming contests.
- Taught university-level courses in Algorithms & Data Structures and Object-Oriented Programming.

Education

The Bonch-Bruevich St. University of Telecommunications, St. Petersburg Sept 2010 – May 2015

Computer Science and Software Engineering in Telecommunications

Relevant Activities

IT Consulting - Software Architecture review and assessments	2024 - Now
Competitive programming - ACM ICPC, NEERC	Semifinal 2013, Quarterfinals 2011, 2012
KPI-Open, Kiev	2012, 2013

Talks

Introduction to Bazel • Introduction to Rust • Agentic Coding at XITE

Open Source & Side Projects

- [http4s/blaze](#) - Fixed infinite recursion bug in SSL handshake caused by a JDK regression (OpenJDK 11).
- [redis4cats \(fs2-redis\)](#) - Implemented Redis Cluster support for the Effects API.
- [rules_scala](#) - Docs, bug reports, and workarounds for protobuf compilation issues in Bazel Scala rules.
- [DataBridge \(dbqcore/dbqctl\)](#) - Side project: data quality validation toolkit written in Go.
- [logfish](#) - Lightweight log explorer interface for ClickHouse, inspired by Kibana.