Barcelona, Spain, GMT+1

Nikita Mikaev

+34 665 85 50 85
nikita.mikaev.work@gmail.com

LinkedIn | GitHub

Professional Summary

Staff Software Engineer and Engineering Manager with 10+ years of experience specializing in distributed systems and microservices architecture. Strong knowledge of Java/Kotlin/Spring and Python/FastAPI ecosystems. Successfully launched 15+ products across fintech, healthtech, media. Designed and scaled high-load systems up to 100k RPS with 99.999% availability, ensuring geographic distribution and fault tolerance. Expertise in building scalable solutions from scratch under tight deadlines (3–6 months). Currently leading 5 cross-functional teams (60+ engineers) building a GenAI product.

Employment

Engineering Manager — **Dcloud.tech** — **Mar 2024 – Present**

- Lead the development of an end-to-end AI Recruitment pipeline featuring automated scoring systems and AI-driven interviewers.
- Drive technical pre-sales and architectural design sessions to define long-term technology strategies for global clients.
- Scaled engineering recruitment from the ground up, improving hiring efficiency metrics by 30% within six months.
- Manage a domain of five cross-functional teams (RAG Search, Core, Interviewing Platform, Speech & Text Processing, Pipeline & Integrations; ≈60 engineers), overseeing delivery roadmaps, system architecture, and talent mentorship.

Technologies: Python, FastAPI, GenAI (Prompt Engineering, LangChain, RAG, ChromaDB, OpenAI API)

Engineering Manager — **Warner Music Group** — **Sep 2021 – Mar 2024**

- Architected and delivered a cloud-native global music distribution platform on AWS within a strict 8-month timeline.
- Scaled high-load media services to 100k RPS, maintaining 99.999% availability for international distribution.
- Engineered a proprietary compression algorithm for audio spectral charts, reducing cloud storage costs by 33%.
- Designed a complex multi-domain access control system tailored for music-industry compliance and workflows.
- Recruited and spearheaded a distributed cross-functional team of 15 engineers, establishing SDLC best practices and strategic roadmapping.
- Orchestrated the workflow of a remote engineering unit, optimizing collaboration to accelerate product delivery cycles.
- Defined and implemented engineering standards, including Code Review protocols, GitFlow, and Definition of Done to ensure high-velocity, quality releases.

Technologies: Java, Kotlin, Python, Spring Boot, AWS (Lambda, SQS, Aurora, DynamoDB, Step Functions, S3, CloudFront, EC2, API Gateway, CDK), OKTA

Engineering Manager — **National Railways** — **Jan 2021 – Sep 2021**

- Spearheaded the end-to-end architecture and delivery of a medical clearance MVP in under 4 months, leading a team of 10.
- Designed a WebRTC-based real-time video session architecture for secure integration between medical terminals and remote clinicians.
- Engineered a resilient message delivery backbone using Redis Streams to circumvent WebSocket load-balancing issues and maintain stable session states.
- Defined the core architecture for identity verification and vitals capture, ensuring military-grade data transit security and auditability.

Technologies: Microservices, Java, Kotlin, Spring Boot, WebRTC, Redis Streams, Redis, PostgreSQL, Apache Kafka, Kubernetes, ELK, Keycloak, OAuth2/OIDC, Python, FastAPI, SQLAlchemy

Staff Software Engineer — **VTB Bank** — **Jan 2018 – Jan 2021**

Projects: Brokerage Platform Core, Wealthy Clients CRM, Bank Notification Subsystem
- Architected a high-load (800+ TPS) brokerage core platform with guaranteed message delivery via Kafka and outbox patterns.
- Delivered a greenfield CRM for wealth management, resulting in a 40% reduction in operational handling time.
- Led the development of a distributed ecosystem comprising 50+ microservices for real-time SME credit risk assessment.
- Developed a multi-channel notification platform with exactly-once processing guarantees and automated failover mechanisms.

Technologies: *Microservices, Java, Spring Boot, Kubernetes, Istio, Apache Kafka, PostgreSQL, MongoDB, Debezium, Hazelcast, ELK, Keycloak, OAuth2/OIDC*

Senior Java Engineer   **Avaya**   **Oct 2016 – Jan 2018**

Python Developer   **Kaspersky Lab**   **Jan 2016 – Oct 2016**

Skills

- **Languages & Frameworks:** Java 17/21, Kotlin, Python, Flask, FastAPI, Spring Boot (Data, Security, Cloud).
- **Architecture & Design:** Microservices, Distributed Systems, Highload, Event-Driven Architecture (EDA), Event Storming, DDD, Hexagonal/Clean Architecture, BFF, SAGA, Outbox Pattern.
- **Patterns & Principles:** GoF, GRASP, SOLID, EIP, Resilient patterns (Circuit Breaker, Retry, Rate Limiting, Throttling).
- **Data Layer:** PostgreSQL, SQLAlchemy, MongoDB, Redis, Redis Streams, MySQL, Oracle, JOOQ, Spring Data, Hibernate, Hazelcast, Debezium (CDC), ELK Stack.
- **Infrastructure & Cloud:** Kubernetes, Istio, Docker, GCP, Terraform, Spring Cloud Gateway, Nginx, Traefik.
- **AWS:** SQS, Lambda, Step Functions, S3, CloudFront, DynamoDB, Aurora, EC2, KMS, Secrets Manager, API Gateway, CDK.
- **Integrations & Streaming:** Apache Kafka, RabbitMQ, ActiveMQ Artemis, gRPC, REST, WebSockets, HTTP, TCP/UDP.
- **Security:** Keycloak, OKTA, OIDC, OAuth2, RBAC/ABAC, mTLS, WAF, HashiCorp Vault.
- **Observability & Tools:** Prometheus, Grafana, OpenTelemetry, Micrometer, Jaeger, Zipkin, OpenAPI, AsyncAPI, Git.
- **BPM & Workflows:** Camunda, Temporal, Netflix Conductor.
- **GenAI:** Prompt Engineering, RAG, ChromaDB, QDrant, LangChain, Claude Code, Claude Sonnet 4.5, Claude Opus 4.5, OpenAI API (GPT-5-mini, Embeddings), DeepSeek API.
- **Methodologies:** Agile, Scrum, Kanban.

Education & Certifications

- Master of Software Engineering, Moscow State Technological university "Stankin", 2020-2022
- Bachelor of Computer Science, Moscow State Technological university "Stankin", 2016-2020
- GCP Professional Cloud Developer (2024), AWS Solutions Architect Professional (2023), Certified Kubernetes Administrator - CKA (2023), Oracle Java SE 17 (2022)

Achievements

- Two-time National Mathematics Champion (2017, 2018)
- Java Programming Course Instructor, Moscow State Technological University "Stankin" (2020–2022)