

# ALEXEY SEMENKOV

Software Engineer

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## PROFILE INFO

Software Engineer with 12 years of experience building reliable and user-friendly applications. I enjoy releasing new features and connecting with users to see how my work makes a difference. Skilled in Kotlin, Java, AWS, and modern web technologies. I focus on creating solutions that not only work well but bring joy to the people who use them.

## EXPERIENCE

### May 2018 - March 2025

tado° GmbH | Munich, Germany

#### Senior Software Engineer

- Built and optimized installation process services and web applications to enhance user onboarding and setup experiences.
- Developed and maintained integrations with voice assistants and automation platforms, including Alexa, Google Home, and IFTTT.
- Designed, implemented, and supported an OAuth 2.0 authentication server.
- Led the development of infrastructure, focusing on CI pipelines and cloud solutions using AWS.
- Designed and developed the tado° Professional app using Flutter for installers.
- Monitored and managed server infrastructure as part of on-call duties.
- Collected and analyzed metrics to improve system performance and guide product decisions.
- Collaborated closely with designers to create new products and features.
- Educated team members on data lake usage, enabling efficient data access and analysis across departments.
- Prepared user testing environments and led usability tests, gathering valuable feedback to refine product features and improve user satisfaction.
- **Stack:** Kotlin, TypeScript, Java, Groovy, Python, AWS, DynamoDB, Elasticsearch, Redis, MySQL, Angular, Flutter and more.

### August 2016 - May 2018

RBKmoney | Moscow, Russia

#### Software Developer

- Developed an online payment system with a focus on reliability and security.
- Built and maintained microservices for improved scalability and performance.
- Contributed to infrastructure automation using Docker and SaltStack.
- **Stack:** Java (Spring), PostgreSQL, and Elasticsearch to optimize system performance.

### March 2016 - August 2016

Altarix | Moscow, Russia

#### Software Developer

- Developed a government analytics system to improve data access and decision-making.
- Enhanced internal search engine performance for faster and more accurate results.
- Built microservices and web applications to support the system's scalability.
- **Stack:** Java (Spring), MongoDB, Elasticsearch, and RabbitMQ.

## EDUCATION

2008 - 2013 | "MEPhI" Moscow

### Computer Science and Engineering

Master's Degree in Cybernetics  
Department of Computer Systems  
and Information Technologies

## SKILLS

- **Languages:** Kotlin, Java, Python, TypeScript
- **Cloud/DevOps:** AWS, Docker, Github Actions, Terraform
- **Databases:** PostgreSQL, MongoDB, DynamoDB, Elasticsearch
- **Other:** OAuth 2.0, RabbitMQ, Jupyter Notebook and more

## LANGUAGES

- English: Fluent
- German: Intermediate
- Russian: Native

## EXPERIENCE

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### ■ May 2013 - March 2016

Lanit | Moscow, Russia

#### Software Developer / Team Lead

- Led the development of large-scale, nationwide information systems.
- Managed and mentored a development team, overseeing project timelines and ensuring high-quality outcomes.
- Developed MVPs and conducted technology analysis to guide project direction.
- Built microservices and web applications, define APIs for external services
- **Stack:** Java (Spring, EE), Hibernate, IBM Websphere AS, Liquibase, Oracle DB, PostgreSQL, Riak CS, Angular-JS.

### ■ November 2012 - May 2013

Beeline (VimpelCom) | Moscow, Russia

#### Technical support

- Monitored and maintained a pool of services during night and day shifts.
- Rebooted services and executed scripts or nightly jobs as needed to ensure system stability.
- Monitored system metrics and promptly reported issues to senior specialists for resolution.
- Ensured high availability and performance of critical services through proactive support and issue escalation.

## ADDITIONAL EDUCATION

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- Building Data Lakes on AWS - AWS Cloud Solutions Architect Professional.
- M101J: MongoDB for Java Developers.
- Spring 2.5 certificate - XSL certificate.
- Unix courses - yakit - Yandex.
- Functional Programming in Scala - Course by Martin Odersky.

## Hobbies

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### Game Development

Co-created a simple game called Screenshot Guessing Game (ssgg.fun), where players guess the game based on its screenshot.

### Music

I play in the rock band called [Quantum Fate](#) and also create video content for our profile.

### Gaming

I enjoy playing computer games with friends and family.