

ILIA KUZNETSOV

Software Development Engineer

📍 Dublin, Ireland

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🌐 kuzznya

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EXPERIENCE

Amazon Web Services

Software Development Engineer II (L5)

📅 Nov 2022 – Ongoing

📍 Dublin, Ireland

AWS ElastiCache – managed Redis, Valkey and Memcached service

- Implemented service update support for ElastiCache Serverless that updates customers' clusters automatically and handles over 15k nodes/day with no disruption for the customer traffic.
- Improved vertical scaling and engine upgrade framework, ensuring zero downtime and 99.99% availability by providing <1s write unavailability during failover.
- Led and delivered the cross-team project of a Data Lake-based analysis and reporting for End-of-Life campaigns using PySpark that allowed customers to see affected resources.
- Implemented a SQL migration validation framework with a DDL statement parser and provided full CD automation of database migration across 30+ AWS regions, reducing release time by more than 50%.

Dell Technologies

Senior Software Development Engineer

📅 Mar 2022 – Jul 2022

📍 St. Petersburg, Russia

Software Development Engineer

📅 May 2021 – Mar 2022

Self-service system security management project

- Led the design and implementation of a new event driven architecture using Kafka, significantly improving reliability of the system.
- Led the cross-team project to manage credentials and automated patching of all internal servers across multiple internal clouds over 30+ locations.
- Provided self-service web UI and backend for customers to manage and patch their resources.
- Improved observability of the system by introducing tracing and structured logging, halving the average incident resolution time.

Intellectual Technologies

Junior Java Developer

📅 Nov 2020 – May 2021

📍 St. Petersburg, Russia

Data collection & analysis system for oil industry

- Designed and implemented fault-tolerant and efficient data collection and processing from the data sensors, handling over 20k datapoints/sec.
- Implemented stream and batch analysis that provided monitoring of the critical parts of the oil well.
- Designed a long-term storage solution with intelligent dynamic sampling for collected data (more than 1TB/day).

ALPE Consulting

Junior Java Developer

📅 Dec 2019 – May 2021

📍 St. Petersburg, Russia

Intern Java Developer

📅 Jul 2019 – Dec 2019

EDUCATION

ITMO University

BSc, Software Engineering

📅 Sept 2019 – June 2023

SKILLS

Programming Languages

Java Kotlin Go SQL
JavaScript/TypeScript Python
Ruby Bash

Technologies

PostgreSQL Cassandra MongoDB
Redis Kafka RabbitMQ
InfluxDB DynamoDB

Tools

AWS Terraform Docker
Kubernetes Linux Git
GitHub Actions Jenkins

LANGUAGES

- English - advanced
- Russian - native
- French - beginner

PROJECTS

Redis Search Replica (Go)

Redis full text search support implemented as a separate read replica (Go, C, k6)

🔗 kuzznya/go-redis-search-replica

Letsdeploy

Project provides an easy way to deploy apps and services (PostgreSQL, Redis, etc.) to Kubernetes using web UI (Go, Vue.js)

🔗 kuzznya/letsdeploy