

# ILIA KUZNETSOV

## Software Development Engineer

📍 Dublin, Ireland

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🌐 kuzznnya

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## EXPERIENCE

### Amazon Web Services

#### Software Development Engineer

📅 Nov 2022 – Ongoing

📍 Dublin, Ireland

AWS ElastiCache – managed Redis, Valkey and Memcached service

- Implemented SQL migration validation framework with a DDL statement parser that allowed full CD automation of database migration.
- Improved vertical scaling and engine upgrade framework, ensuring zero downtime and 99.99% availability.
- Designed and delivered data lake based analysis and reporting for End-of-Life campaigns that allowed customers to see affected resources.
- Implemented service update support for ElastiCache Serverless that updates customers' clusters automatically and transparently to the customer.

### Dell Technologies

#### Senior Java Developer

📅 Mar 2022 – Jul 2022

#### Java Developer

📅 May 2021 – Mar 2022

📍 St. Petersburg, Russia

System security management project that manages host patching, credential rotation & other security-related tasks.

- Designed and implemented new event driven architecture using Kafka, significantly improving reliability of the system.
- Improved observability of the system by introducing tracing and structured logging.

Java, Sprint Boot, K8s, RabbitMQ, Kafka, PostgreSQL, ELK

### Intellectual Technologies

#### Junior Java Developer

📅 Nov 2020 – May 2021

📍 St. Petersburg, Russia

Data collecting & analysis system for oil industry.

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

### ALPE Consulting

#### Junior Java Developer

📅 Dec 2019 – May 2021

#### Intern Java Developer

📅 Jul 2019 – Dec 2019

📍 St. Petersburg, Russia

Developed an extension system for SAP using microservice architecture. The communication with SAP was set up with SOAP protocol. Created both backend and frontend part, used microfrontend approach.

Java, Spring Boot, Spring Cloud, Hibernate, Vue.js

## 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)

🔗 kuzznnya/go-redis-search-replica

### Deploy apps & services to K8s through UI

#### Letsdeploy

🔗 kuzznnya/letsdeploy

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