ILIA KUZNETSOV

Software Development Engineer

 Dublin, Ireland   @ ikuz2002@gmail.com   kuzznya   kuzznya

EXPERIENCE

Software Development Engineer
Amazon Web Services

 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.

Senior Java Developer

 Mar 2022 – Jul 2022

Java Developer
Dell Technologies

 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

Junior Java Developer
Intellectual Technologies

 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).

Junior Java Developer

 Dec 2019 – May 2021

Intern Java Developer
ALPE Consulting

 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

BSc, Software Engineering
ITMO University
 Sept 2019 – June 2023

SKILLS

Programming Languages

Proficient: Java   Kotlin   Go   SQL

Other: JS/TS   Python   Ruby   Bash

Frameworks

 Spring (Core, Boot, Cloud, Security, Data)

 Quarkus   Hibernate   jOOQ   Vue.js

Technologies

 PostgreSQL   Cassandra   MongoDB

 Redis   Kafka   RabbitMQ   InfluxDB

 DynamoDB

Tools

 AWS   Terraform   Maven   Gradle

 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

Deploy apps & services to K8s through UI

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