Rodion P.

SOFTWARE ENGINEER

Education
Computer Science and Software Engineering

Language proficiency
English — B2

Domains
Commerce,

SaaS,

Ad-Tech

Software Engineer with 5 years of experience.
Experience in designing and developing large vertically and horizontally scalable monoliths, microservices applications, writing documentation for architectural solutions, team management. Assistance at all stages of project development.

Programming languages
Python, JavaScript, TypeScript.

Backend
Django, Django Rest Framework, Flask, Flask-RESTful, FastAPI, Alembic, Pydantic, Marshmallow, SQLAlchemy, ElasticSearch, Celery, OAuth2.

Frontend
React, React Testing Library, Redux, HTML/CSS, Webpack, axios, MUI.

Message brokers
Kafka, RabbitMQ, AWS SQS, GCP Pub/Sub.

Databases
MongoDB, PostgreSQL, DynamoDB, Redis.

Cloud
AWS(Lambda, EMR, S3, EC2, EKS, ECR, ECS, CDK, RDS, IAM, SES, SQS, Redshift, DynamoDB, CloudWatch, Cognito, API Gateway, etc.),

GCP(Cloud SQL, Cloud Storage, Pub/Sub, Cloud Functions, Kubernetes Engine, Load Balancing, Cloud Logging, etc.).

DevOps
Docker, Docker Compose, Kubernetes (k8s), Jenkins,

Terraform, AWS CDK, GitHub Actions, Bash.

Source control system
Git, GitLab, GitHub.

Achievements

Infrastructure optimisation

By integrating Kubernetes on the AWS cloud, the infrastructure was optimized to achieve significant cost savings while enhancing load capacity and performance. This approach led to a reduction in average infrastructure costs by approximately 30-35%, demonstrating a successful balance between scalability, efficiency, and cost-effectiveness in the cloud environment.

React Performance Tuning

Conducted comprehensive performance analysis on React application, implementing optimizations that led to a 25% improvement in frontend rendering speed. Utilized React DevTools and Chrome Lighthouse for profiling and identified critical areas for enhancement.

Implementation of Comprehensive CI/CD Pipeline

Engineered a streamlined CI/CD pipeline for the codebase, including Python automation scripts and best practices to automate the build, test, and deployment processes. This CI/CD implementation significantly accelerated the release cadence, reducing manual intervention and minimizing deployment errors.

Projects

LEARNING PLATFORM

A learning platform with videos related to cars, users can upload their videos there or integrate with YouTube. There is also a map with all suppliers of spare parts for this customer.

Project roles

Software Engineer

Period

05.2022 - Till Now

Responsibilities

- Design new services architecture;
- Fullstack development;
- Implementing designs and layouts as per the Figma specifications;
- Implementing designer layouts;
- Implement dynamic React components;
- Creating complex and scalable serverless computations using AWS Lambda;
- Design and implementing AWS S3 for storing documents and other media;
- Rewrite microservices communication from REST API requests to AWS SQS;
- Optimizing performance of SQL database system with indexes;
- Configure the Jenkins server;
- Configuring Jenkins for CI/CD pipelines;
- Configuring services communication with AWS SQS;
- Configure AWS SES for mail sending information and statistics gathering;
- Setting up retry mechanisms, and implementing backoff strategies for Celery tasks;
- Implementing indexes on SQL tables and optimizing existing raw queries and stored procedures;
- Rebuilding indexes on SQL tables to optimize query performance and enable faster data retrieval;

- Design build triggers, tools, integrations, and workflow;
- Writing unit tests;
- Onboarding new developers;
- Code review.

Environment

Python, JavaScript, TypeScript, Django, Django Rest Framework, Flask, Flask-RESTful, SQLAlchemy, Pydantic, Alembic, React, React Testing Library, Redux, HTML/CSS, Webpack, axios, MUI, AWS(IAM, ECR, EKS, API Gateway, Lambda, DynamoDB, S3, RDS, Cognito, SES, SNS, SQS, etc.), Jenkins, Redis, Celery, PostgreSQL, Docker, Docker Compose, Bash, Terraform, Kafka, Kubernetes(k8s), GitLab.

BOAT MONITORING SYSTEM

Boat Monitoring System is a web-based platform designed to collect, aggregate, and visualize data from boats navigating the oceans. The system enables users to monitor real-time boat data, manage fleets, and make data-driven decisions.

Project roles

Software Engineer

Period

06.2020 - 04.2022

Responsibilities

- Backend development;
- Serverless calculations using AWS Lambda;
- Monitor and optimize AWS RDS work;
- Configuring authorization using OAuth2 involves setting up the application to use the OAuth2 protocol for user authentication and authorization;
- Configure RabbitMQ replication;
- Implementing service for interaction with 3rd-party service for retrieving data;
- Solving complex optimization problems;
- Building AWS infrastructure with Terraform;
- Rebuilding indexes on SQL tables to optimize query performance and enable faster data retrieval;
- Managing ECS cluster;

- Writing IaC on AWS CDK;
- SQL query optimization;
- Identifying and resolving performance bottlenecks;
- Writing unit and integration tests;
- Implementing security and compliance controls in CI/CD pipelines;
- Implementing CI/CD using Jenkins.

Environment

Python, Django, Django Rest Framework, FastAPI, SQLAlchemy, Alembic, Pydantic, Celery, AWS(IAM, ECR, ECS, EC2, API Gateway, Cognito, Lambda, S3, SES, SNS, etc.), RabbitMQ, ElasticSearch, OAuth2, PostgreSQL, MongoDB, PostgreSQL, GitLab, Jenkins, AWS CDK, Docker, Docker Compose, Bash.

SHIPPING SOFTWARE

A shipping software that simplifies the customer's shipping process. It gathers all major carriers in one place and uses smart algorithms to find the most convenient and cost-effective shipping option for customers.

Project roles

Software engineer

Period

04.2019 - 05.2020

Responsibilities

- Fullstack development;
- Implement UI development principles to ensure that the product client-side serves at scale;
- Creating adaptable web layouts;
- Streamlining development workflow and bundle size with Webpack;
- Conduct security and penetration testing on the application;
- Build serverless part using Cloud Functions;
- Setup storage for images and other required files on Cloud Storage;
- Logging with Cloud Logging;
- Solving optimization problems on the database;
- Database query optimization;
- Inspecting and optimizing stored procedures and

SQL queries;
- Create partitions on SQL tables;
- Implement centralized storage for collecting and processing of raw and systematized data;
- Was involved in CI/CD configuration using GitHub Actions;
- Writing technical documentation;
- Writing bash scripts.

Environment

Python, TypeScript, JavaScript, Django, Django Rest Framework, Flask, SQLAlchemy, Marshmallow, Alembic, Celery, React, React Testing Library, Redux, HTML/CSS, Webpack, axios, MUI, GCP(Cloud SQL, Cloud Storage, Pub/Sub, Cloud Functions, GKE, Load Balancing, Cloud Logging, etc.), Kafka, MongoDB, PostgreSQL, Redis, GitHub, GitHub Actions, Docker, Docker Compose, Kubernetes(k8s), Bash.

Professional skills

SKILLS		EXPERIENCE IN YEARS	LAST USED
Programming languages	**Python**	5	2024
	JavaScript	3	2024
	TypeScript	3	2024
Backend	**Django**	5	2024
	Django Rest Framework	5	2024
	Flask	3	2024
	Flask-RESTful	2	2024
	FastAPI	2	2022
	Alembic	5	2024
	Pydantic	4	2024
	Marshmallow	1	2020
	SQLAlchemy	5	2024
	ElasticSearch	2	2022
	Celery	5	2024
	OAuth2	2	2022
Frontend	**React**	3	2024
	React Testing Library	3	2024
	Redux	3	2024
	HTML/CSS	3	2024
	Webpack	3	2024
	axios	3	2024
	MUI	3	2024

SKILLS		EXPERIENCE IN YEARS	LAST USED
Message brokers	**Kafka**	3	2024
	RabbitMQ	2	2023
	AWS SQS	2	2024
	GCP Pub/Sub	1	2020
Cloud	**AWS**	4	2024
	GCP	1	2020
Databases	**MongoDB**	3	2022
	PostgreSQL	5	2024
	DynamoDB	2	2024
	Redis	3	2024
DevOps	**Docker**	5	2024
	Docker Compose	5	2024
	Kubernetes(k8s)	3	2024
	Jenkins	4	2024
	Terraform	2	2024
	AWS CDK	2	2022
	GitHub Actions	1	2020
	Bash	5	2024
Source control systems	**Git**	5	2024
	GitLab	4	2024
	GitHub	1	2021