

# VADIM ZHDANOV

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LinkedIn



GitHub



WebSite

## Experience

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**VK-Dzen** – <https://dzen.ru/>

Dec 2022 – Present

Senior Software Engineer → Tech Lead/Team Lead

Remote

- Implemented snapshot of the possible interviews for faster access ( $O(1)$  in front of  $O(n)$ , where  $N$  is the count of rows in the DB table) to it in the runtime
- Implemented and supported service of the fully customizable interviews (created in the admin using Spring Framework + React), which allows to make in-depth interview of the users in the application, such as CSI and NPS metrics; other useful information for analytics and product managers
- Normalised processes (task flows, team environment, resource optimisation and meetings optimisation) in the cross-functionality team (3 mobile, 3 web, 2 backend developers, 1 QA and 1 product manager)
- Conducted whiteboard (near 30) interviews with the candidates
- Implemented recommendations related with news in the application and web-site using ML formulas and information, which transferred 20% of the users from COLD to HOT
- Built new service for indexing dzen web-site supported multiple content, user's channels and playlists which increases twice visitors of the web-site implemented sitemaps and fixed SEO problems using documents from Yandex and Google and supported full cycle of the zero downtime deployment of it
- Implemented push-client for sending fully customizable and thematic pushes to the client's applications, which supported thematic content in dzen, which increasing time-spend in the application in 6% in thematic content, when forwarded from push
- Integrated chosen interests of the client with the ML formulas to increase personal recommendations of the content, which increases in 5% timespend in the application and web-site for COLD users

**ClickPay** – <https://clickpay.com/>

May 2019 - Dec 2022

Middle Software Engineer → Senior Software Engineer

Remote

- Implemented new deploy pipelines with zero downtime, which reduced build-deploy time from 30 minutes to 15 minutes by parallel building and deploying for each service. Also, reduce WebPack build time from 3 minutes to 1 minute
- Integrated auto-testing and code coverage to the pipelines, which reduced bugs twice
- Built kubernetes deployment instead of virtual machine hosting, which allows to expand web-site auditory to Canada
- Designed & implemented new approach of collecting history of updating data in the system (more than 100 database objects and 10.000 fields) using MS SQL history tables, which allowed to re-organised code and make possible to identify history of any information in the web-site
- Optimised work with Redis in 30% by splitting requests to the independent batches & handling and collecting results in parallels threads
- Implemented custom gateways and routing to support .NET Framework 4.8 and implementation .NET Core 6
- Designed & implemented UI component (React + Redux) to build new pages using metadata, which reduced development time from 4 days to 1 hour
- Designed & developed multiple internal and external frontend services on React + Redux and backend services on C# .NET Core/Framework (for example two-factor authentication feature)

**PizzaBot** – <https://pzzbot.com/>

May 2019 – Sep 2020

Software Engineer → CTO

Perm, Russia

**About Project:** Full-Customised Vending Machine to cook pizza by robotic-arm

with fully unique movements. Team consists of 17 IT specialists, 8 engineers, CTO, CPO, COO, CPO

- Identified requirements and build new features for the startup
- Designed an architecture for IT & HardWare parts of the startup and identified technological stack
- Designed and implemented algorithm to generate unique movements by robotic arm with 7 axis in limited conditions
- Conducted 25 both technical interviews and general interviews & coached 17 new engineers and designers
- Built company's rules inside IT & HardWare departments
- Implemented security, hardware, admin of the machine inside startup. Deployed first prototype version (MVP)
- Worked with the cross-functional teams and managed this work (17 developers and 8 engineers in the team)
- Prioritised tasks to the teams (designers, hardware, backend, frontend, database)

**Freelancer**

Jan 2017 – Apr 2019

FullStack Developer

Remote

- Identified requirements for the system with stakeholders
- Built architecture of the system both monolith and microservices using DDD pattern
- Implemented system's backend using NET Core (C#) and Entity Framework
- Implemented system's frontend using both Electron and Express + WebPack. Used React + Redux
- Tested system using Jest for frontend and NUnit for backend
- **Best achievement:** designed, implemented and deployed an online store with 10.000 RPS

## Projects

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**Trilateralss (BluSky Solar & Roofing) – <https://trilateralss.com/>** **March 2022 - Present**

*Stack: Kotlin, Spring, TypeScript (Angular, React), MySQL, PostgreSQL, AWS*

- Designed a distributed microservice architecture for the CRM system
- Designed UI/UX of the application and implemented using React-Typescript + Redux
- Learned & supporting previous implementation of the system (PHP - backend; TypeScript (Angular) - FrontEnd)
- Implemented new microservices using Kotlin (Spring WebFlux) and PostgreSQL
- Integrated a CRM with Facebook Ad
- Integrated a CRM with Docu Sign (smart-contracts)
- Built AWS infrastructure for hosting a system with zero downtime deployment both frontend and backend

**h2security – <https://h2security.io/>**

**Feb 2022 - Aug 2022**

*Stack: Kotlin, TypeScript (React), PostgreSQL, MongoDB, Redis, Digital Ocean*

- Participated in building architecture of the system
- Designed & implemented approach of saving code analysis results in the system
- Ensured application security by designing & implementing the contracts for OAuth 2.0 using Keycloak and Spring Security
- Designed UI/UX of the application. Implemented it using TypeScript (React + Redux)
- Covered application by auto-testing. FrontEnd - Jest. BackEnd - JUnit & Testcontainers
- Designed & implemented gateways for the application using gRPC, Kafka and Spring

## Skills

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**Soft Skills:** *Time Management* (Stress management, Organization, Goal setting), *Communication* (Constructive feedback, Active listening), *Adaptability* (Self-management, Optimism), *Problem-solving* (Fast decision making), *Teamwork* (Conflict management and resolution), *Leadership* (Management skills, Authenticity, Mentorship), *Interpersonal Skills* (Empathy, Networking)

**Programming:** Java/Kotlin (Spring, Spring Boot, Spring WebFlux, Ktor, JUnit), Go, Python (FastAPI, Django, PyTest), TypeScript (React, Angular), Node.JS, SQL

**Databases:** PostgreSQL, MS SQL, Redis, MongoDB, S3, Liquibase

**DevOps:** Docker, Kubernetes (Kubectl, OpenShift, Portainer), GitLab, BitBucket, Azure DevOps, Unix/Linux

**Cloud Platforms:** AWS, Google Cloud, Azure Services, Yandex Cloud

**Technologies:** Kafka, RabbitMQ, Keycloak, WebPack, Electron, Express, Snyk, Testcontainers, REST, gRPC

## Education

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**HSE University**

**Sep 2021 – Jun 2023**

*Master of IT Management and Software Engineering*

*Moscow, Russia*

- Work on research paper connected to the blockchain's speed handling with the Azu and single smart-contract storage
- GPA: 7.97/10

**HSE University**

**Sep 2017 – Jun 2021**

*Bachelor of Software Engineering*

*Moscow, Russia*

- Finished two projects works on IoT management and visualisation of cyber-physical objects. Integrate it to the university office
- Finished project works on identification defects on high load conveyor. Participated in startup competition
- Finished project works on IT management with the basis of Agile (Scrum) and Waterfall approaches
- GPA: 9.27/10

## About me (Some Other Information)

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- Languages: Russian (native), English (flexible), Japanese (beginner)