Personal Info

Podgorica, Montenegro

dmlukichev@gmail.com

+382 67 13 98 55

1987-08-09

@dmlukichev

~/dmlukichev

~/dmlukichev

~/users/851290

Skills

TypeScript

Rust

Javascript

PHP

Python

Postgres

MariaDb/Mysql

Mongo

Angular

React

NodeJS/Deno

NestJS

Axum/Tower

Kubernetus

Languages

Русский

English

Srpski

DMITRY LUKICHEV

Senior Software Engineer / Software Architect

Experienced Software Engineer and Architect with over a decade of expertise in designing and building scalable, high-performance systems. Skilled in leading teams, optimizing software architecture, and implementing robust, maintainable code across diverse platforms.

Proven track record of delivering complex projects from concept to deployment with a focus on efficiency, security, and long-term sustainability.

Consultant

Contract | Apr 2024 → Sep 2024

LepotaTech lepota.tech

The company develops self-hosted solutions for logistics automation.

Rust, Typescript, Axum, SeaORM, Postgres, PostGIS, pgRouting, OSM, Docker

My task was to develop a microservice that processes events occurring during the delivery process in real time. To achieve this, the following was done:

- Designed a data schema based on PostgreSQL + PostGIS + pgRouting
- Developed a lightweight API for receiving device location data, with the ability to expand the list of supported devices dynamically (dynamic payload mapping), using Axum + SeaORM
- Implemented real-time event streaming using sockets
- Covered the code with integration and unit tests where necessary
- Assisted with integrating the solution into the existing codebase

The project was delivered on schedule, despite minor changes in the technical requirements.

System Architect

Full-time | Jan 2022 → Mar 2024

Documo documo.com

The company is developing a cloud solution for handling faxes.

Typescript, Angular, NestJS, mysql, Postgres, Sequelize, Typeorm, Redis, Kafka, Docker, Kubernetus, GCP

When I joined, the company faced two key challenges that needed to be addressed: poor infrastructure scalability and unpredictable development speed due to high code coupling.

I initiated the following actions:

- migration of the codebase to TypeScript with strict interface declarations
- separation of key processes into independent microservices where possible
- refactoring the codebase by moving from Express to modular NestJS

During the project, I focused on the following tasks:

- coordinated collaboration between two development teams to maintain a unified direction
- ensured module boundaries were respected within their respective areas of responsibility
- monitored code quality (both during typical code reviews and while planning major epics), addressing complex challenges through pair programming sessions
- took on the most complex development tasks, delegating them progressively as intermediate results were achieved
- due to the shift from a monolithic architecture to a modular monolith + microservices setup, completely reworked the CI/CD system, accelerating the deployment process through effective caching

Although not all initiatives were implemented by the time I left, what was implemented significantly improved release stability and made development more predictable.

Team Lead

Full-time | Feb 2021 → Jan 2022

DataArt dataart.team

IT-outsourcing company

Angular, Typescript

I can't disclose the details due to the signed NDA.

Senior Software Developer

Full-time | Oct 2020 → Feb 2021

Skyeng skyeng.ru

Online English language school

Typescript, Angular, WebRTC, janus, ElasticSearch, LogStash, Grafana

Maintained and developed the client-side component of a WebRTC-based video calling module

Example tasks that I had to perform:

- collecting logs and analytics from client devices
- analyzing and troubleshooting issues escalated from second-line technical support
- making minor adjustments to the client interface
- helping and supporting other teams when they encountered difficulties integrating the module

Tech Lead

Full-time | Apr 2019 → Aug 2020

Payever getpayever.com

The company develops e-commerce solutions for small-to-medium businesses

Angular, Typescript, NestJS, Mongo, Cypress

My goal was to develop a new version of a visual website builder (similar to Wix, WebFlow, or Tilda) to replace the previous proof of concept, which wasn't able to do what it's supposed to do and would crash under after any meaningful usage load.

The key problem areas of the previous version were the following:

- global change detection that triggered re-rendering of all application parts in response to every interaction
- inefficient client-server communication (the entire editor state was sent to the server after each action)
- high coupling between interactions that created conflicts

Taking all this into account, I've built a proof-of-concept with following ideas in mind:

- there should be an object model (similar to the virtual DOM), where the objects would be the result elements (blocks, sections, product, etc.), not HTML elements
- a rendering module that transforms this virtual DOM based on the context passed to it should be an independent model working outside the framework (in pure JavaScript).
- any interaction should not modify the state directly, but generate an action, which, after the corresponding reducer, will produce a new state (*stateNew=reducer(stateOld, action)*)
- any editor's behavior (insert, drag-n-drop, resize, etc...) should be optional and easily disabled. Ideally, it should be an RxJS flow that returns either a modifying action or a new editor context at the output

These key ideas turned out to be correct, and the PoC I've developed, after involving other developers, was successfully turned into a working MVP within a year

This project was one of the most challenging in my career, and thanks to it, I grew tremendously as a professional. Unfortunately, I had to leave it due to the work-life balance not meeting my expectations (for context: the company's rating on GlassDoor is 3.3).

Senior Frontend Developer

Contract | Aug 2017 → Mar 2018

Dashnex dashnex.com

The company was developing a platform for hosting personal pages based on customizable, pre-defined templates.

Typescript, Angular, PHP, Symfony, Bootstrap, Mysql, Docker

My team's task was to migrate code responsible for rendering of client pages from AngularJS to Angular (version 4 at that time) and add server-side rendering.

The main challenges were:

- the legacy codebase was a chaotic mix of server-generated fragments of HTML+JS, with even some dynamically rendered CSS
- many of the necessary API endpoints for data retrieval hadn't been implemented
- there was a complete lack of integration tests
- angular SSR wasn't yet part of the framework; it was just a third-party library with rather poor documentation

The project was successfully completed, resulting in several key outcomes:

- at least a basic set of integration tests was introduced
- although this refactoring was huge, the migration was seamless for users
- the page's First Contentful Paint (FCP) dropped from 3 seconds to 400ms (90th percentile)
- client size was reduced from ~3MB to 800KB
- we became one of the first products to use SSR in production

Through this project and the need to dig into the source code to solve emerging issues, I gained a deep understanding of how Angular works "under the hood."

Frontend Developer

Full-time | Apr 2018 → Feb 2019

SnapCart snapcart.global

The company was collecting analytics on purchases by scanning receipts.

Our team's task was to develop and maintain a system for manually entering data from receipts that failed OCR.

My responsibilities were:

- implementing interfaces within the React Admin framework
- collaborating with the backend team to clarify data on existing endpoints and/or request new ones
- customizing Material-UI elements according to the company's brand guidelines and developing elements not covered in those guidelines
- reviewing colleagues' code and writing tests

The project was completed and launched, but was later discontinued as the company didn't secure the next round of funding.

React, Redux, Redux-Saga, React-Admin, MaterialUI, Formik, Jestjs, Typescript, PHP, Symfony

Consultant

Contract | Oct 2016 → May 2017

MM.LaFleur mmlafleur.com

The company provided personalized styling services to make it easier for clients to select workwear.

I was hired on UpWork to develop an anti-fraud solution.

The system I developed performed the following:

- regularly extracted data on all orders and their statuses from a Magento MySQL database
- retrieved shipment statuses via API or by scraping data from UPS, USPS, and ShipStation
- flagged orders as normal or suspicious based on defined criteria
- offered a minimalist interface in Angular + Material for handling suspicious orders

The system was completed, launched, and successfully integrated into the company's business processes.

Typescript, NodeJS, Angular, Postgres, SequelizeJS, HAPI, Python

Specialist in Applied Informatics in Economics

Sep 2004 → Jun 2010

Tambov State Technical University