Nikolai Dorofeev

Software Engineer

Fullstack Developer with expertise in Vue.js, TypeScript, Node.js, and Python, specializing in building scalable, high-performance applications. Experienced in leading projects and improving code quality, I bring a collaborative approach and an agile mindset to drive innovation and deliver impactful results.

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📍 Tbilisi, Georgia

Work Experience

Backend Software Engineer Exactpro
Aug 2023 - Present (1 year 1 month)

Proprietary Framework Development:

- Spearheaded the development of a proprietary framework to optimize development speed and enhance the overall developer experience;
- Designed and implemented an intuitive Python API for a proprietary file format parser, ensuring seamless integration and usability;
- Utilized pandas to efficiently manipulate and analyze large datasets, driving performance improvements and streamlined workflows;
- Identified and resolved performance bottlenecks, significantly enhancing the system's responsiveness and efficiency;
- Employed SQLite for high-performance data storage and retrieval tasks, ensuring robust and efficient data management;
- Ensured the codebase was clear, well-documented, and maintainable, facilitating future development and reducing technical debt;
- Conducted retrospective performance analysis and improvements on the existing codebase, leading to optimized operations.

Contributions to Financial Systems Testing Tools:

- Developed sophisticated tools for reconciling data across different trading protocols, enhancing accuracy and consistency;
- Created simulation and inspection tools for trading systems algorithms, enabling in-depth analysis and validation of financial processes.

Full-stack Engineer Red-Green Life Design
Nov 2023 - Jul 2024 (9 months)

Mobile Application for Diet Tracking

- Collaborated as part of a small, cross-functional team (team lead, mobile developer, designer) to develop a mobile application for tracking diet results;
- Developed the mobile client using React Native and Expo, delivering a smooth and responsive user experience;
- Worked closely with the designer to ensure that the UI/UX aligned with user expectations and adhered to design specifications;
- Built and maintained backend services using Node.js and Express, providing reliable support for the mobile application;
- Designed and implemented RESTful APIs in collaboration with the frontend developer, ensuring seamless data exchange between the client and server;
- Configured OAuth2.0 authentication, ensuring secure user access and data protection;
- Managed the PostgreSQL database, overseeing data storage, retrieval, and integrity for the application;
- Managed backend instances across different stages of product development, ensuring consistent performance and reliability;
- Configured a CI/CD pipeline using GitHub Actions, automating the deployment process and enhancing development efficiency.

Languages

- English: Upper-Intermediate
- French: Intermediate
- Russian: Native

Skills

`TypeScript` `JavaScript`

`Node.js` `Python`

`Smart Contracts`

`Web Ecosystem`

`Vue Ecosystem`

`React Ecosystem`

`CSS frameworks` `DApps`

`REST API` `ORM` `DBMS`

`Event-Driven` `Blockchain`

`The Open Network` `TACT`

`FunC` `Sandbox Testing`

`Contracts Deploy`

`Docker` `Kubernetes`

`GitHub actions` `GitLab CI`

`Unix`

Senior Fullstack Developer Exactpro
Jul 2021 - Aug 2023 (2 years 2 months)

Documentation Portal Development for th2 (Kubernetes-based Microservices Framework):

- Played a key role in designing and developing a custom documentation portal tailored for technical writers, utilizing Gridsome (Vue.js + GraphQL);
- Analyzed and translated user requirements into robust technical designs and performance specifications;
- Led the development of a highly deployable and easily maintainable documentation toolkit based on Nuxt.js and Tailwind CSS;
- Integrated third-party solutions, including GitHub and Algolia, to enhance documentation functionality;
- Developed demonstration modules in Python and Kotlin for th2, focusing on gRPC and RabbitMQ communication within a Kubernetes environment;
- Authored clear, comprehensive documentation for complex microservices frameworks;
- Configured CI/CD pipelines for the seamless deployment of static websites and npm packages using - GitHub Actions, GitLab CI, and Jenkins;
- Provided mentorship to junior developers and technical writers, fostering skill development and knowledge sharing.

Other achievements:

- Architected the winning solution for the Swift Hackathon 2022, enabling traceability of digital assets across blockchains.

Projects

- [d0xigen](): 🚀📖 Docs to breath life into your project

- [d0rich design system](): 🎨 Design system inspired by Persona 5 UI

- [🐶 dog](): 🐶 Generate d0rich OpenGraph images! Wuaff!

- [ton](): Most popular TON Typescript Library

- [DNetwork](): First true blockchain social network (built on TON)

- [BigFiles](): Ton Drive is an intuitive and responsive interface designed for Telegram Web Apps. It allows seamless uploading, viewing, and managing of large files, bypassing Telegram's 2GB file limit. Users experience smooth interactions while the backend handles robust file processing and storage.

- [ton-validators-map](): Building a map of TON validators

- [tradeb0t](): 🤖 Trading software with high integration possibilities

- [th2-cli](): 👨‍💻 CLI for managing th2 infrastructure in Kubernetes cluster

- [tweetst0rm](): 🐦 Simple app that uses GPT-3 for generating tweets.

Certificates

- Enterprise Patterns ([foxminded.ua](), May 2023): Course Page, Certificate, Verify Certificate

- Architecting With Google Kubernetes Engine ([Coursera](), Oct 2021): Certificate

- Fundamentals Of Digital Marketing ([Google Digital Garage](), Jul 2021): Certificate

Education

Bachelor of Science - BS, Information Systems and Technologies in Business
 Tomsk Polytechnic University
Sep 2018 - Jul 2022 (3 years 11 months)

This program is aimed at training specialists in the field of information systems and technologies in business, who are able to solve problems of business management and economic activity using modern information technologies and systems. Projects were related to the development of e-commerce systems and integration with ERP systems.

Main learning stack: ASP.NET + MS SQL.

However, students was free to choose any technology stack for their projects.

Used technologies: Node.js, Python Flask, Vue.js, Nuxt.js, MongoDB, PostgreSQL, Firebase, Docker, etc.

Diploma project: distributed full-stack framework for trading automation implemented with Node.js and Vue.js.