

Nikita Vanyasin

Software Development Engineer / PhD

Budapest, Hungary

+36 206 111 333

nikita.vanyasin@gmail.com

nikita-vanyasin.github.io

linkedin.com/in/vanyasin/

CORE COMPETENCIES

- Software design
- System analysis
- Design and implementation of distributed systems
- Relational DB's optimization and reliability
- Project planning and management

TECHNICAL SUMMARY

Programming languages

- Go
- PHP
- JavaScript/NodeJS
- Python
- C#
- Java
- C/C++
- Lua

Databases & Full-text search

- MySQL
- PostgreSQL
- Redis
- MongoDB

SUMMARY

I have more than 12 years of commercial web development, building high-quality sites and services. My experience ranges from full-stack web development to design and implementation of complex distributed systems. Significant chunk of my experience comes from web-development world, but I'm not limited by it and open to diving into new tech stacks and fields.

The most recent experience is all about Golang, Kubernetes and everything around it.

I have a deep knowledge of relational databases and its optimization, configuration, and its reliability. I even worked as a teacher of "Databases" course.

I've finished my post-graduate thesis on semantic source code editors aka structure editors.

In my free time, I'm building some small side-projects with my friends.

WORK EXPERIENCE

2022 - **Software Engineer**

now ArangoDB

Working on various tools for ArangoDB ecosystem. Among them: Go-lang DB driver, k8s operator & charts, Cluster-to-Cluster replication system. Some projects are available at [GitHub](#).

Technologies: Go, k8s, Docker, Linux OS.

2018 - **Freelancer**

2021 Self-Employed

Working on various projects. Mainly backend services implementation, script automation, microservices design, and system programming. Also started some side projects.

2019 - **Senior Software Engineer**

2020 cloudradar GmbH

Working on an open-source agents for server-monitoring and networks-tunneling software in Go language. Some DevOps tasks too. The projects are available at [GitHub](#).

Tasks: adding new features to existing server-monitoring agents. Implementing CI pipelines for cross-platform packaging. Implementing first version of [rport](#) - a simple command line tool to create tunnels over

- ArangoDB
- Sphinx

Server administration & Tools

- Kubernetes
- Docker
- nginx / openresty
- Ansible
- Zabbix
- Prometheus
- fabric

HOBBY/SIDE PROJECTS

- Breezzly.ru - small platform for UX/UI design education. Technical execution / CTO.
- TBA - SaaS for taking smart SEO decisions. Technical execution / CTO.

HTTP/TLS/WebSockets to any endpoint, bypassing firewalls or network restrictions.

Technologies: Go, Docker, Linux OS, Windows API, GitLab CI.

2015 - 2018

Senior Software Developer

iSpring Solutions

Started mentoring and guiding company’s newcomers and interns. I was working on projects as a team leader/ developer.

Tasks: Design and development of services from scratch, development of necessary libraries, refactoring and automation.

Technologies: PHP, Go, Python, C#, NodeJS, WebRTC, MySQL, RabbitMQ, HTML/JS/CSS, Symfony, Redis, Sphinx, Docker, Amazon Web Services.

Accomplishments:

- Optimized internal tool for making backup versions of main product sites
- Rewritten and optimized security module for web-service using openresty-LUA scripting and Redis key-value storage
- Rewritten ‘iSpring Webinars Recording’ feature using TokBox ‘individual streams archives’ API. Created special web-service for video processing using ffmpeg with the option of easily scaling up/down
- Started and actively participated in iSpring Content Library project: backend service for ‘Content Library’ application
- For the first time in company implemented web-service release automation using TeamCity and Fabric
- Implemented backend .NET service for MS Equation file processing
- Moved the test code base of the big project to Codeception framework, added acceptance testing.

2015 - 2018

Lecturer at local institute & university

Institute of Programming Systems and Volga State Technical University (Russia)

Gave lectures on:

- Database programming & information analysis.
- Software development management: Agile, Scrum, etc.
- Introductory course for first-year students

2012 - 2015

Software Developer

iSpring Solutions

I've joined the team of iSpring Learn Learning Management System development. I was working on core features and MySQL optimization. Also worked on iSpring Cloud platform (presentations sharing web service) from the scratch.

Tasks: Design and development of services from scratch, development of necessary libraries, refactoring and automation.

Technologies: PHP, MySQL, RabbitMQ, HTML/JS/CSS, Symfony, Redis, Sphinx, Amazon Web Services.

Accomplishments:

- Implemented video transcoding of uploaded videos using AWS Elastic Transcoder/SNS/S3
- Implemented in-browser data recovery system for user statistics
- Implemented full-text search for web-service using Sphinx
- Implemented the first version of internal url-shortener service that can process links like <http://ispri.ng/xxxxx>
- Participated in iSpring Webinars development, which allows LMS users to hold conferences and calls. The system is based on WebRTC and TokBox Platform

2011 - **Software developer / Student Intern**

2012 iSpring Solutions

I was developing Flash/ActionScript applications and web-sites for company products

Technologies: Flash/ActionScript3, HTML, JS, CSS, PHP.

EDUCATION

2015 - **PhD, Computer Science**

2020 Mari State Technical University (Volgatech)

2010 - **Master of Engineering, Computer Science**

2015 Mari State Technical University (Volgatech)

<https://en.volgatech.net/>

PUBLICATIONS

2020 **Model and algorithms of Integrated Development Environment with structure editor for software source code**

PhD Thesis, 2020

https://ugatu.su/media/uploads/MainSite/Science/dissovet/07/2020/vanyasin-nv/dissert_vanyasin-nv.pdf

2019 **Architecture for Integrated Development Environment with structure editing support**

Information Technologies, Mechanics and

- Optics, 2019
<https://cyberleninka.ru/article/n/arhitektura-integrirovannoy-sredy-razrabotki-programmnogo-obespecheniya-s-podderzhkoy-strukturnogo-redaktirovaniya>
- 2018 **Structure editor for semantic edition of source code**
IS&IT - 2018
http://en.e-notabene.ru/kp/article_18881.html
- 2017 **Semantic code editing in intelligent IDEs**
Cybernetics and programming. — 2017 - №1
http://en.e-notabene.ru/kp/article_18881.html
- 2016 **Hierarchical Semantic Database Structure of the E-Learning Systems**
Handbook of Research on Estimation and Control Techniques in E-Learning Systems
<https://www.igi-global.com/chapter/hierarchical-semantic-database-structure-of-the-e-learning-systems/142450>
- 2015 **Institute Hierarchy Mapping to iSpring Online LMS User Role Restrictions**
Электронное обучение в непрерывном образовании 2015 II Международная научно-практическая конференция
<https://elibrary.ru/item.asp?id=23152223>
- 2015 **HIERARCHICAL SEMANTIC NETWORK STORAGE METHOD FOR RELATIONAL DATABASES**
OSTIS-2015