

Nikita Vanyasin

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- **12+ years of Software Engineering** experience
- Collaborated directly with **stakeholders** as a **freelancer/consultant**
- Academic researcher (**PhD**), mentor, delivered university lectures
- **Co-founded and led** a small business from inception to over **2600+** paying users
- Background in **Database optimization, High-performance cloud platforms** and building **data-intensive applications**

Experience

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|--|--|----------------------------|
| Senior software engineer | ArangoDB (remote) | Feb/2022 - Feb/2024 |
| <ul style="list-style-type: none">◦ Integrated Machine Learning components into the Kubernetes operator, enabling users to save up to 30% costs when running ML tasks on their on-prem deployment.◦ Proposed the design and implemented a tool for migrating on-prem installations to managed cloud solution, allowing to convert more clients to paying customers.◦ Initiated and accomplished the redesign and rearrangement of Operator documentation to eliminate duplication and make it more user-oriented.◦ Automated the creation of OpenAPI validation schemas for Kubernetes CRDs, reducing manual efforts.◦ Come up with an idea and upgraded the "DC to DC cluster synchronization" tool to use a newer version of DB-driver resulting in more robust and memory-efficient communication between components.◦ Established unified approach for PR checks and CI/CD pipelines for all five main Golang projects, increasing code quality and speeding up the release cycle.◦ Optimized leader election mechanics for Go projects, utilizing a new polling API to reduce resource consumption and lower the load on DB servers.◦ Initiated the addition of automatic security vulnerability scanning for all five Golang projects using govulncheck, enhancing the security of built artifacts. | | |
| Senior Software Engineer | CloudRadar (part-time, remote) | Mar/2019 - Dec/2021 |
| <ul style="list-style-type: none">◦ Working mostly on server-monitoring software, I managed to refactor legacy code while optimizing the performance of metrics collection.◦ Designed and built a novel tool to set up remote tunnels to servers in security-tightened environments. Acquired by RealVNC.◦ Established CI/CD pipelines, packaging and delivering binaries (deb, rpm, windows), saving 10 human hours monthly.◦ Suggested and implemented async job execution and monitoring, empowering customers to track metrics and create alerts for scheduled tasks. | | |
| Freelancer | self-employed (part-time, remote) | Mar/2018 - Jan/2022 |
| <ul style="list-style-type: none">◦ Gained experience of communicating with stakeholders, gathering requirements, and resolving conflict situations. At the same time, created many projects in different fields, broadening my skill set: Docker Volume Plugin for LVM, Suppliers ordering system (Node.js, Go), High-performance web-crawler (Go), Mattermost plugin (Go), and others involving Kubernetes, nginx, Linux, CI/CD, and Protobuf. | | |
| Lecturer/tutor | Local universities, Yoshkar-Ola | Sep/2015 - Jan/2018 |
| <ul style="list-style-type: none">◦ Delivered lectures on Database Programming & Information Retrieval, Software Development Management (Agile & Scrum), and an introductory course for first-year students. Over 80% of attendees are now employed in international companies.◦ Organized multiple nationwide Olympiads in informatics using open-source software. | | |

- **Mentored newcomers** and **spoke** at internal meetups; four of my five mentees secured permanent contracts.
- Led a small team to integrate the Webinars platform (**WebRTC**), boosting upsell for existing customers.
- Designed the 'Webinar Recording' feature, enabling the saving of sessions in a playable format.
- Automated the release process using **TeamCity** and **Fabric**, saving ~20 human hours monthly.
- Optimized a permission access system for served files (**OpenResty+Lua**), leveraging **Redis**-stored permissions to significantly reduce response time.
- **Designed and implemented** iSpring Content Library backend, powering the "Content Library" feature.
- Developed backend **.NET** service for OS-independent processing of MS Equation files.
- Rewrote hundreds of test cases using **Codeception**, adding **E2E** tests, and reducing escaped defects.
- Optimized backup tool for main product sites, significantly **speeding up** the process.
- Reworked the hierarchical permissions system for shared files access using **closure-table** approach which resulted in higher RPS and lower resource usage.
- Implemented video transcoding using **AWS** Elastic Transcoder / SNS / S3, reducing infrastructure costs.
- Enhanced in-browser data recovery system for user statistics, reducing data loss.
- Implemented **full-text search** using Sphinx, enhancing user satisfaction.

Side-projects

- **jaysearch.com** - SEO insights from Google Search console. Technical leadership and execution. The tool allows improving SEO by tracking keyword rankings and discovering growth opportunities with real-time data from GSC.
- **breezly.ru** - platform for UX/UI design education. Co-founder, complete technical execution. Started as a hobby project, it now educates 2600+ paying customers in UX/UI skills.
- **Open-source**: occasionally **contributing** to Golang compiler and some popular go packages.

Education

Mari State Technical University (Volgatech)

Yoshkar-Ola, Russia

PhD, Computer Science

2015 - 2020

Mari State Technical University (Volgatech)

Yoshkar-Ola, Russia

Combined Master's and Bachelor's degree (5 years), Computer Science

2010 - 2015

Publications

- **Model and algorithms of Integrated Development Environment with structure editor for software source code**
PhD thesis, 2020
- **Hierarchical Semantic Database Structure of the E-Learning Systems**
Chapter 24, Nikita Vaniasin
Handbook of Research on Estimation and Control Techniques in E-Learning Systems, 2016

Skills

Programming Languages: Go, Python, PHP, C, C#, Java, Lua, C++, JS/TypeScript/HTML/CSS.

Databases and search: MySQL, PostgreSQL, Redis, MongoDB, ArangoDB, DynamoDB, Sphinx, Elastic Stack.

Tools and Frameworks: Kubernetes, Docker, Jaeger, Apache Kafka, Nats.io, envoy, nginx / openresty, ansible, Zabbix, Grafana, Prometheus, WebRTC, GRPC.