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I'm a full stack (predominantly backend) developer and a researcher with more than 8 years in software engineering. I created [Unison](#), [Nodes.js Backend Framework](#), [EHTML](#) and [many other things](#).

Skill Set (Tech Stack): JavaScript, TypeScript, Node.js, Express, Fastify, NestJS, NX: Smart Monorepos, React, Next.js, Java, Spring Boot, Hibernate, Python, FastApi, HTML, EHTML, Nodes.js, CSS, SVG, Web Components, UI/UX, Scilab, LaTeX, Git, PostgreSQL, MongoDB, MariaDB, Liquibase, Flyway, migrate-mongo (library), Prisma, Drizzle, ORM, Redis, DI, GCP, AWS, Azure, Clickhouse, Grafana, Snowflake, Marble, n8n, Chat Bots, Docker, Kubernetes, Travis CI, Github Actions, OpenTelemetry, New Relic, GrayLog, REST APIs, Public APIs, Stripe (Payment System), Message Driven Architecture, Microservices, Test Containers, Junit, Test Mock Frameworks.

Work Experience

Gemba (Remote, Tbilisi): Nov 2024 - Present. Senior Software Engineer and Technical Consultant.

I implemented and maintained payment services for internal and external banking operations, ensuring secure and reliable transaction processing using systems like Marble. I designed workflow automations with n8n and integrated chat-based systems to enhance support and communication. I developed CI/CD pipelines to streamline deployments and improve system stability through testing, monitoring, and optimization. Additionally, I collaborated with cross-functional teams to align payment infrastructure with business goals and resolved production issues in payment and automation systems.

Congrify (Remote, Tbilisi): Feb 2024 - Oct 2024. Team Lead: Senior Software Development Engineer.

I resolved critical issues in AWS infrastructure and built a monitoring system to detect transaction anomalies and inconsistencies. I added data processing features, optimized workflows, and improved validation and performance metrics, while also reducing AWS Lambda costs by 20%. I enhanced concurrency in legacy microservices and completely

redesigned the application's frontend. Additionally, I improved performance, caching, error handling, and overall UX in the React application.

FxPro (Cyprus, Limassol): Nov 2022 - Oct 2023. Senior Software Engineer.

I managed infrastructure for over 60 microservices, achieving a 20% boost in reliability and a 15% reduction in downtime. I developed authentication and payment configuration services, including an Authentication Service integrated with Azure Active Directory and migrated configuration for 20+ payment systems across 50+ countries. My improvements to CI/CD pipelines reduced deployment time by 25%, and I integrated New Relic into 25 services to identify performance optimization opportunities. I also created internal tutorials and manuals for over 40 services to support team efficiency.

Cognitran (Poland, Krakow): Sep 2021 - Oct 2022. Senior Software Engineer.

I implemented offline mode for over half of the diagnostic tool features and introduced performance improvements that boosted system efficiency by 15%. I deployed, managed, and scaled various AWS infrastructure components, including EC2, S3, RDS, DynamoDB, Lambda, and VPCs. I also built custom AWS monitoring solutions using CloudWatch and CloudTrail for performance tracking and issue troubleshooting. Additionally, I handled AWS integrations using Terraform and documented over 10 services.

Alten (Poland, Krakow): Mar 2021 - Aug 2021. Senior Software Engineer.

I was involved in designing integration solutions and implementing new software using Google Cloud Services, Kubernetes, and container-based infrastructure. I took end-to-end responsibility for delivering product increments within a Scrum team, collaborating closely with Product Owners, SMEs, and other IT departments. My role also included supporting Business UAT, testing, and preparing detailed technical documentation with a focus on code quality and review.

Huawei (Russia, Moscow): Jan 2020 - Mar 2021. Senior Software Engineer.

I developed automation tools to streamline API migration and bug fixing in Java codebases across more than 50 projects. Working with global open-source teams, I helped create key libraries like Broken XML and Rewrite Java Definitions. I improved code quality and consistency by establishing CI/CD pipelines and best practices across numerous projects. Additionally, I contributed to open-source DevOps tools, including alternatives to Artifactory.

USMobile (Remote): Feb 2019 - Jan 2020. Senior Software Engineer.

In this role, I led the design of technical solutions and created a roadmap for migrating our infrastructure to Google Cloud Platform (GCP). I successfully oversaw the implementation of this replatforming, ensuring a smooth and efficient transition. Additionally, I spearheaded the full automation of report processing from third-party

sources, utilizing GCP services to significantly improve data processing and operational efficiency.

Grid Dynamics: Dec 2015 - Jan 2019. From Intern Software Engineer to Senior Software Engineer.

From December 2015 to January 2019, I progressed from Intern to Senior Software Engineer at Grid Dynamics. I worked on a Google project in Wroclaw, Poland, developing an internal tool for evaluating programmer performance and improving management processes, using industry-relevant frameworks. In Saratov, Russia, I contributed to Home Depot's support tool, closely collaborating with their management to deliver key features. I also led the development of several microservices for Raymond James, focusing on efficient handling and communication of large-scale client data.

Side project:

Unison (unisonofficial.com): 2019 Dec. - Present. CTO. As CTO and Founder of Unison, I led the development of a long-lasting, technically robust platform that transforms text into dynamic music notation. Leveraging a solid tech stack—including Node.js, MongoDB, HTML, SVG, Markdown, EHTML — I combined hands-on engineering with strategic direction to build a maintainable, scalable solution at the intersection of music and technology.

Personal Proprietary Projects: [Unison](#) is a platform where you can create sheet music just by describing them with simple words. (Node.js, Async Tree Pattern, MongoDB, EHTML)

Open Source Projects: [EHTML](#), [Nodes.js](#), [Test executor](#), [Broken XML](#), [Rewrite Java Definitions](#)

Papers: [Mathematics of Neural Network](#), [Async Tree Pattern](#)

Talks: [EHTML: New Demo \(6 Dec 2023\)](#), [Declarative Unit Testing in Node.js \(in Russian, 1 Mar 2020\)](#), [Declarative Node \(in Russian, 8 Feb 2019\)](#), [EHTML: Simple Blog App \(1 Dec 2019\)](#).

Certifications: [Oracle Certified Associate Java SE 8 Programmer](#)

Education: Applied Mathematics and Computer Science: *Saratov State University, 2012 - 2016*, [Bachelor's Thesis: Cost Minimization of Energy on the Control of Satellite's Angular Motion \(in Russian\)](#).

Rest of Life: I play guitar and ukulele, watch good movies, read useful books, learn chess, do sport activities (football, running), and travel a bit. More about me you can find [here](#).