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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](#), [Async Tree Pattern](#), [EHTML](#) and [many other things](#).

Skill Set (Tech Stack): JavaScript, TypeScript, Node.js, Express, NestJS, React, Next.js, Java, Spring Boot, Hibernate, Python, FastApi, HTML, EHTML, CSS, SVG, Web Components, UI/UX, Scilab, LaTeX, Git, PostgreSQL, MongoDB, MariaDB, Liquibase, Flyway, migrate-mongo (library), ORM, Redis, DI, Google Cloud Platform (GCP), Big Query, Amazon Web Services(AWS), Clickhouse, Grafana, Snowflake, Azure Active Directory, Docker, Kubernetes, Travis CI, Github Actions, New Relic, GrayLog, REST APIs, Public APIs, Stripe (Payment System), Message Driven Architecture, Microservices, Test Containers, Junit, Test Mock Frameworks.

Work Experience

Congrify (Remote): Feb 2024 - Present. Team Lead: Senior Software Development Engineer.

- Fixed critical issues in the AWS infrastructure.
- Created a monitoring system that detects anomalies and inconsistencies in transactions.
- Added numerous features related to data processing, including optimized workflows, enhanced data validation, and improved performance metrics.
- Reduced the cost of AWS Lambda functions **by 20%**.
- Enhanced concurrency in several legacy microservices.
- Redesigned the entire frontend of the application.
- Improved the performance, caching, error handling, and user experience (UX) of the entire React application.

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

- Managed infrastructure supporting over **60 microservices**, resulting in a **20% improvement** in system reliability and a **15% reduction** in downtime.
- Developed and implemented various microservices for authentication and configuring payment systems.

- Improved CI/CD processes, leading to a **25% reduction** in deployment time.
- Introduced New Relic in **25 services**, leading to the identification of numerous areas for enhancement and optimization.
- Engineered and implemented an Authentication Service seamlessly integrated with Azure Active Directory.
- Migrated Configuration Service for more than **20 different payment systems** in more than **50 countries** around the world.
- Added tutorials and manuals for internal usage for more than **40 services**.

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

- Implemented offline mode functionality for **more than half** of the diagnostic tools' features.
- Implemented features resulting in a **15% improvement** in overall system performance.
- Deployed, managed and scaled AWS infrastructure components such as EC2 instances, S3 buckets, RDS databases, DynamoDB, AWS Lambdas, and VPCs.
- Created AWS monitoring solutions integrated with CloudWatch and CloudTrail to monitor resource utilization, track performance metrics, send alerts for different custom metrics, and troubleshoot issues.
- Managed some integrations with AWS using Terraform.
- Added documentation for more than **10 services**.

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

- Participating in the design of integration solutions.
- Implementation of new software. Working with some Google Cloud Services, Kubernetes, and Container based Infrastructure.
- End to end responsibility for delivering product increments.
- Communication with Product Owner, SMEs and other IT departments as part of the Scrum Process.
- Testing and support of Business UAT. Preparation of comprehensive technical documentation (code review and code quality aspects) to support the completed application.

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

- Created automation for API migration and bug fixing in Java source code for more than **50 projects**
- Collaborated with open-source teams around the world to gather insights and ensure the effectiveness of the system. As part of this endeavor, I contributed to the development of essential libraries such as Broken XML and Rewrite Java Definitions.

- Reviewed and increased quality of dozen different projects by creating CI/CD pipelines and guidelines.
- Contributed to the development of DevOps tools, such as Artifactory alternatives, as part of open-source initiatives.

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

- In my role, I held responsibility for devising technical solutions and developing a roadmap for replatforming our infrastructure from a standard technical stack to the robust Google Cloud Platform (GCP).
- Successfully helped to implement this migration, ensuring a seamless transition to leverage the advanced capabilities offered by GCP.
- Spearheaded the completed automation of report processing from third-party sources, leveraging a range of GCP services to optimize efficiency and enhance data processing capabilities.

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

Grid Dynamics: Google (Poland, Wroclaw).

- Had the privilege of working on an internal tool aimed at measuring the performance of programmers and providing effective management solutions.
- Catered to the unique requirements of Google, utilizing a specific stack of frameworks and libraries, some of which were widely adopted in the industry.
- Actively contributed to the development and optimization of the tool, enabling efficient performance evaluation and streamlined people management processes.

Grid Dynamics: Home Depot (Russia, Saratov).

- Had the opportunity to work on the Home Depot support tool, where I played a vital role in its implementation and enhancement.
- Collaborated closely with the Home Depot management team to ensure the tool met their requirements and expectations. This involved actively contributing to the development of key features and leveraging my technical expertise to deliver a reliable and efficient support solution.

Grid Dynamics: Raymond James (Russia, Saratov).

- Focused on a comprehensive set of services dedicated to efficiently handling large volumes of client data across numerous microservices.
- Specifically, I took ownership of several microservices, spearheading their development from scratch. This involved designing and implementing robust solutions to effectively move and manage the flow of data, ensuring seamless communication between the various components.

Side project:

Unison (unisonofficial.com): 2019 Dec. - Present. CTO. As the Chief Technology Officer and Founder of Unison, I led the inception and development of a groundbreaking online tool that translates textual descriptions into dynamic music notation. My role extends beyond vision to hands-on execution, with expertise in network optimization, Docker deployment, and cloud technologies. I've successfully integrated video production, sales strategy, and content marketing, showcasing my holistic approach to technology leadership. Proficient in Node.js, MongoDB, HTML, SVG, EHTML, Async Tree Pattern, SMTP, load balancing, JavaScript, and more, I've driven Unison's technical evolution from concept to a cutting-edge platform, embodying the convergence of creativity 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](#), [Page](#), [Cutie](#), [Cutie's extensions](#), [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](#).