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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, Nest.JS | Java, Spring Boot, Hibernate | HTML, CSS, SVG, Web Components, UI/UX, jQuery, Angular | Scilab | Git | PostgreSQL, MongoDB, Liquibase, Flyway, migrate-mongo (library), ORM, Redis | DI, Google Cloud Platform (GCP), Big Query, Amazon Web Services(AWS), 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 | Async Tree Pattern, EHTML.

### **Work Experience:**

**FxPro (Cyprus, Limassol): 2022 Nov. - 2023 Oct. Senior Software Engineer.** In my role, I have been responsible for managing the infrastructure supporting over 60 microservices. Additionally, I have developed various microservices for authentication and configuring different payment systems. One of my key objectives has been to ensure consistency, reliability, and robustness across libraries and microservices. To achieve this, I have focused on improving the Continuous Integration and Continuous Deployment (CI/CD) processes, writing comprehensive tutorials, and creating documentation to facilitate knowledge sharing and enhance cross-team collaboration efficiency.

**Cognitran (Poland, Krakow): 2021 March - 2022 Oct. Senior Software Engineer.** In a dynamic microservice environment, I supported multiple services by adding features and making adjustments to existing legacy code. Additionally, I played a key role in developing and maintaining a diagnostic tool for real vehicles and simulations. Through my technical expertise and collaborative approach, I contributed to the improvement of services, mentored colleagues, and delivered high-quality results within strict timelines.

**Huawei (Russia, Moscow): 2020 Jan. – 2021 March. Senior Software Engineer.** In my role, I was responsible for researching and developing a system that

automates API migration and bug fixing in Java source code. I 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. These libraries played a crucial role in enabling seamless API migration and code transformations, ultimately streamlining the development process and improving code quality for Java projects.

**USMobile (Remote): 2019 Feb. - 2019 Dec. 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). I successfully led the implementation of this migration, ensuring a seamless transition to leverage the advanced capabilities offered by GCP. Additionally, I spearheaded the complete automation of report processing from third-party sources, leveraging a range of GCP services to optimize efficiency and enhance data processing capabilities.

**Grid Dynamics: 2016 Dec. - 2019 Jan. From Intern Software Engineer to Senior Software Engineer.**

**Google (Wroclaw, Poland).** In my role, I had the privilege of working on an internal tool aimed at measuring the performance of programmers and providing effective management solutions. This tool catered to the unique requirements of Google, utilizing a specific stack of frameworks and libraries, some of which were widely adopted in the industry. By leveraging my expertise in this specialized technology stack, I actively contributed to the development and optimization of the tool, enabling efficient performance evaluation and streamlined people management processes.

**Home Depot (Russia, Saratov).** During my tenure, I had the opportunity to work on the Home Depot support tool, where I played a vital role in its implementation and enhancement. As the main point of contact, I 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.

**Raymond James (Russia, Saratov).** In my role, I 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](http://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.

**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:** [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](#).