Maksim Gritchin

Software Architect

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Profile

I'm a skilled software architect and developer with a diverse background in various industries. Specializing in system optimization, scalable solutions, and innovative frameworks, I have honed my expertise in programming languages such as C#, F#, Rust, T-SQL, Elixir, Python.

Professional Experience

01/2022 – present

Software Architect
YOUHODLER ⧉
crypto-to-crypto financial services platform with over 290,000 active users

- Rewrote a unique trading core engine using telemetry, gRPC microservices, custom Rust language service bus, and a new Dealing panel on Blazor framework for efficient scaling, performance, and reliability.
- Increased engine capacity from processing 10 orders to 100 orders per second.
- Reduced hardware spendings by 50%.

01/2016 – 01/2022
Dubai, UAE

Software Architect
GREENRAIN HEALTHCARE INTELLIGENCE
products for healthcare organisations worldwide

Validation core for the system
- Created a transactional files validation framework to meet the standards of the Emirates Ministry of Health and ensured efficient auto-update each quarter
- Increased the system's productivity by 30%, decreased the execution time by 40% according to BenchmarkDotNet performance tracker
- Enabled of all data using a single machine, reducing the data processing time

Connectivity framework
- Single-handedly developed a unique .NET connectivity framework, that encapsulated and simplified the internal services calling logic, making it unlike any other framework available today - Improved the overall system performance by 30%, providing smoother data processing for thousands of users

03/2015 – 12/2015
Moscow, Russia

Software Developer
ALFA BANK ⧉
the largest private bank in Russia, ranking fourth in assets (4,788,862 million RUB as of July 1, 2021)

Reporting system migration to microservice architecture
- Transformed the existing logic from scattered databases amounting to hundreds of gigabytes into a more manageable .NET microservice architecture, resulting in enhanced scalability and efficient testing capabilities
- Reduced the Central Bank database load by 60%, significantly simplifying data updating processes

- Decreased report generation time from minutes to seconds, allowing the analytical department to perform analyses swiftly and efficiently

Database optimisation
- Significantly improved performance of the Credit Conveyor application by rewriting the code in T-SQL and building database indexes, resulting in easier scaling and smoother system performance
- Developed unique console utilities for load and individual procedure functional testing, enabling easy uploading and generation of complex reports

ETL app
- Developed extract-transform-load utilities resulting in more efficient load, validation, and integration from external sources, enhancing data accuracy
- Automated the data processing procedures of the analytical department', reducing the amount of damaged data and increasing the speed of data loading from various data sources

04/2014 – 12/2014 Moscow, Russia	**Software Developer** *YANDEX* ⬈ multinational corporation for Russian-language users, providing 70 Internet-related products and services. $30,000,000 capitalisation

Clicks counter
- *Optimised the Ad impression click data system to handle thousands of clicks per second, resulting in* improved processing efficiency and increased profitability for the company's most crucial department at the time

Data exchange between departments
- Created a data sharing application that consolidated separate data files on ad clicks for each department, facilitating the collaboration and integration with AdOffice for other departments

12/2011 – 03/2013 Moscow, Russia	**Software Developer** *OZON* ⬈ leading e-commerce platform in Russia with a $7,200,000 capitalisation

Website navigation
- Developed new navigation for the store site in the Agile team, increasing the conversion rates and resulting in 8 out of 10 clients finding the required products right away with 5 of them making a purchase - Played a key role in achieving the 106% yearly revenue growth

Backend app for analytical department
- Developed efficient internal desktop application in Delphi (SQL) for the analytical department, leading to faster data analysis, A/B testing, and mathematical calculations
- Dramatically decreased the analytical team's workload by reducing generation time from minutes to seconds

Public Profile

Speaker
Author and speaker at the **"Development of the architecture of a high-load system"** webinar at **LoftSchool**, a leading online school of IT professions in Russia

Speaker
Author and speaker at the «**Getting Started with Optimizing .NET Applications**» webinar for more than 80 students of **SkillFactory**, Data Science and Big Data School

Articles Written By Me

- *Async Rust: What is a runtime and how does it work?* Dev-to article
- *How to work with value equality (C#)* Dev-to article
- *MS SQL Server in simple words* grimmag.hashnode.dev
- *Tables relations in SQL* SkyPro article with 7,541 views
- *Different .NET configurations IConfiguration*. Proglib article

Skills

- Proficient in **.NET, C#, and T-SQL**, with extensive hands-on experience in developing robust and scalable applications in these technologies
- Knowledgeable in a variety of other programming languages, including **C#, Rust, Elixir, F#, Python.**
- Experienced in working with a variety of software development tools and environments including **Visual Studio** (Rider, Visual Studio Code) **Microsoft SQL Server, Docker, Jira, Jenkins, TFS, TeamCity, GIT, and Mercurial**