

Afanasy Barbarov

Software Engineer specializing in building scalable and reliable apps, experienced in microservices and serverless architectures.

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PROFESSIONAL SUMMARY

I am a highly skilled Senior Software Engineer with extensive experience in C#, .NET, Go, Javascript, and Typescript, and expertise in modern cloud technologies like AWS, Terraform, and Serverless. I am a Certified AWS Solutions Architect Professional, adept at building scalable, reliable, and cost-efficient applications using microservices-based and serverless architectures, and automating deployment with Infrastructure as Code (IaC)

WORK EXPERIENCE

Senior Software Engineer, Apaleo GmbH

Mar 2019 – Present

- Migrated existing AWS CloudFormation infrastructure to Terraform to improve scalability and manageability. Worked closely with other teams to ensure a smooth transition and minimal disruption to production.
- Participated in architecture design sessions and implemented various parts of Fiscalization side of the product using REST, API, and .NET Core on AWS. Prepared the product for NF525 certification, collaborating with the team to ensure compliance with regulatory standards.
- Prepared IT infrastructure for SOC2 certification, working closely with the compliance team to ensure that all requirements were met.
- Achieved AWS Solutions Architect Professional certification, demonstrating expertise in designing and deploying highly available, fault-tolerant, and scalable applications on AWS.
- Provided customer support during on-call shifts, troubleshooting issues related to the product and infrastructure.
- Represented the team in DevOps guild, contributing actively to discussions on best practices and improvements to infrastructure and deployment processes.
- Decreased Jenkins CI/CD build time by optimizing build automation pipelines and reducing unnecessary steps.
- Implemented various features in the apaleo.com UI app and API that improved customer and developer experience. This involved working on both the client and server sides of the application, and ensuring that the features were delivered on time and to a high standard.
- Participated in API design sessions, collaborating with cross-functional teams to understand business requirements and translate them into technical specifications. Demonstrated proficiency in designing and implementing RESTful APIs using modern technologies, such as C# and .NET Core.
- Created apps for store.apaleo.com, showcasing the company's products and services. These apps were built using modern web development technologies, such as Angular and Typescript, and deployed to AWS.

Skills: AWS, Docker, Kafka, C#, .NET Core, Go, Angular, React, Terraform, REST, Microservices

Senior Software Engineer, TekLabs

Aug 2013 – Mar 2019

- Developed both client and server-side of several projects, including Angular/.NET applications, from ideation to production.
- Configured the end-to-end testing pipeline for different browsers, utilizing technologies such as Selenium, Docker, and Aerokube, to ensure high-quality software delivery and a smooth user experience.
- Developed various UI widgets for Angular applications.
- Migrated several projects from ASP.NET MVC to .NET Core, resulting in better performance and scalability, and inspired and helped the team to adopt newly released ASP.NET Core, enabling them to stay up-to-date with the latest technologies and improve software development processes.
- Utilized React and Swagger to enhance the user interface and improve the API documentation of several applications.
- Introduced caching on the UI layer, utilizing vanilla JavaScript, CSS, and HTML. This was a significant challenge, as there were no React or Angular frameworks available at the time.
- Developed one of the biggest data exchange APIs in the Nordic region, facilitating seamless data exchange between multiple applications and improving overall business operations.
- Participated in API and protocol design sessions, demonstrating proficiency in designing and implementing RESTful APIs using modern technologies. Worked closely with other developers and stakeholders to design and implement a RESTful API that met business requirements and adhered to industry best practices.

Skills: ASP.NET MVC, ASP.NET Core, AngularJS, JavaScript, JQuery, EF, MSSQL, Selenium, Docker

Software Engineer, ETNA Software

Jul 2012 – Jul 2013

- Developed several analysis tools for financial data, including charts, grids, and pivot tables to provide robust and accurate financial data analysis.
- Developed a user-friendly dashboard for financial data analysis, providing easy access to critical information and enabling quick decision-making.
- Developed custom drawing and analytics functionality for a popular chart library (Infragistics).

Skills: ASP.NET MVC, JavaScript, JQuery, KnockoutJS, HTML5, and CSS3.

Software Engineer, TIRS

Sep 2010 – Jul 2012

- Developed device drivers for ARM processors (NXP Philips) in C and assembly language, resulting in improved high performance and low power consumption.
- Reduced manual testing time by 50% and increased accuracy by 20% by creating an app in C# (.NET/WPF) for automatic testing of electrical circuits of printed circuit boards.
- Successfully designed and developed a software-defined radio (SDR) prototype based on the GNU Radio OSS project, achieving high-quality and reliable functionality.

Skills: C, C#, .NET, WPF, Software Radio

EDUCATION

Master's Degree in Applied Mathematics and Computer Science

2004 – 2009

- Ivanovo State Power University (ISPU), Ivanovo, Russia

PROJECTS

Co-Founder, MatGen AI

Jan 2021 – Present

- Founded and led the development of MatGen AI, a UI-friendly platform for a quick review of energy materials, aimed at providing scientists and researchers with a faster way to analyze materials data.
- Designed the back-end architecture, database schemas, UI, infrastructure, and CI/CD builds.
- Maintained the tech stack, which included managing AWS, GitHub repository, company domains, email providers, and billing for each of the aforementioned parts.
- Led a team of three software engineers, ensuring that development tasks were completed on time and to a high standard. Provided technical guidance and support to team members as needed.
- Participated in CustDev sessions.

Co-Founder, FirstFile

Nov 2020 – Jan 2021

- Founded and led the development of FirstFile - a service for the automatic submission and processing of legal trademarks. I integrated Robokassa payments, configured the CI/CD pipeline, and implemented various parsers and administrative tools. I also led a team of 4 people, mentoring and guiding them in their technical roles.
- Worked towards achieving our startup goals by continuously exploring new technological solutions and strategies, seeking to optimize the performance and scalability of the service.

LICENSES AND CERTIFICATIONS

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| • AWS Certified Solutions Architect – Professional | 2021 |
| • Developing ASP.NET MVC 4 Web Applications | 2013 |
| • Programming in HTML5 with Javascript | 2012 |