

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.
- Prepared the product for NF525 certification
- Prepared IT infrastructure for SOC2 certification, working closely with the compliance team.
- Provided customer support during on-call shifts, troubleshooting issues related to the product and infrastructure.
- Optimized Jenkins CI/CD builds.
- Implemented various features in the apaleo.com UI app and API that improved customer and developer experience.
- Participated in API design sessions, collaborating with cross-functional teams to understand business requirements and translate them into technical specifications.
- Created apps for store.apaleo.com, showcasing the company's products and services.

Senior Software Engineer, TekLabs

Aug 2013 – Mar 2019

- 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. Worked closely with other developers and stakeholders to design and implement a RESTful API that met business requirements and adhered to industry best practices.
- Developed both client and server-side of several projects, including Angular/.NET applications.
- Configured the end-to-end testing pipeline for different browsers, using Selenium, Docker, and Aerokube.
- Developed various UI widgets for Angular applications.
- Migrated several projects from ASP.NET MVC to .NET Core.
- 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.

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).

Software Engineer, TIRS

Sep 2010 – Jul 2012

- Developed device drivers for ARM processors
- Automated testing of electrical circuits of printed circuit boards.
- Designed and developed a software-defined radio (SDR) prototype based on the GNU Radio OSS project.

Skills: C#, .NET Core, Javascript, Typescript, AWS, Terraform, Docker, Kafka, Go, Angular, React, REST, JQuery, EF, Postgres, MSSQL, Selenium, KnockoutJS, HTML5, and CSS3.

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. Led a team of three software engineers.

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.

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 |