DENISAS BYKOVAS

Software Architect & Technical Lead

CONTACT

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LANGUAGES

Lithuanian (native)
Russian (native)
English (good verbal, fluent written)

CERTIFICATES

Microsoft Certified: Azure Administrator
Earned on February 10, 2023

MSCD: App Builder
Earned on January 18, 2021

MSCA: Web Applications
Earned on June 5, 2019

Microsoft Certified Professional
Earned on August 31, 2017

DEVELOPER STATEMENT

I can architect — meaning I design systems that balance long-term maintainability with immediate delivery needs. My solutions respect real-world constraints: infrastructure, people, deadlines, and legacy.

I can code — writing thoughtful, structured, and pragmatic code. I believe in clarity over cleverness and care deeply about the architecture behind the codebase.

I can test — not just with tools, but with discipline. I've built NUNIT plugins, test harnesses, and maintain robust regression coverage on large systems.

I can debug — quickly identifying root causes and applying minimal, risk-aware fixes that don't introduce new bugs.

I can lead — mentoring engineers, facilitating team learning, and driving architecture discussions toward consensus and clarity.

I can communicate — translating between business and engineering, between vision and code, between abstract and concrete.

I can learn — from better minds, from failure, from systems that broke and those that scaled.

I can deliver — reliably, with full-stack awareness, across backend, frontend, infrastructure, and cloud.

Most importantly, I know how to integrate these "I-can"s into a greater "we-can" of a team.

EDUCATION

Lithuanian Christian College, English Language Institute, 1999-2000
Klaipeda University, Informatics Engineering, Bachelor, 2009-2012
finished 5 years' bachelor program in 3 years, average grade B (8,2 LTU)
Klaipeda University, Technical Information Systems Engineering, Master Study 2012-2014, average grade A (9,6 LTU)

University of Southern Denmark, Robot System, Master Study, 2014, Erasmus Student Exchange Program, average grade B (11,1 DM)

Vilnius University, Informatics Engineering, PhD Program, 2014-2019, dissertation "Semantic model-based approaches for interoperability of next

generation enterprise information systems", unfortunately not finished.

CORE SKILLS SUMMARY

Architecting
Togaf, ADM, C4, System Architectures, EA, BPMN, UML, Microservices, Security / OAuth2, Cloud (Azure, AWS), DevOps / CI-CD / Docker

Frontend
React, JavaScript, ASP.NET Core MVC / Razor, HTML/CSS/SASS/LESS, WPF

Backend
.NET / .NET Core, MS SQL / Oracle, Microservices / Event-driven, Security / OAuth2 / , JWT, Azure / Cloud Services

Others
DevOps, Code Review, Git, Unit Testing, Wireframing, PowerShell, Bash Scripting, TCP/IP Networking Identity Management, NoSQL Databases, UML Modeling, Continuous Integration, Microservices, API Design, Cloud Architecture, etc.

WORK SUMMARY

System Architect   *Government & Enterprise Sector*

2016 –

Responsible for designing and guiding implementation of large-scale public systems in tax, finance, and infrastructure domains. Worked closely with cross-functional teams to align system architecture with business and regulatory requirements, ensuring performance, security, and maintainability.

Achievements:

State Tax Inspectorate (VMI)

- Led architecture of nationwide tax platforms, including EDS4 — a core internal and external electronic declaration system.
- Modernized legacy services using with focus on scalability and regulatory compliance.
- Collaborated with multiple departments and vendors to deliver secure, modular services across public sector.

Bank of Lithuania (Lietuvos Bankas)

- Led architecture and team coordination for Centrolink — the national SEPA payments gateway.
- Integrated with RT1, STEP2, TARGET, TIPS EBA systems.
- Developed Instant Payment and standard SEPA microservices, handling message formats such as MT, XML, XAdES.
- Maintained and extended DPS portal for commercial banks; balanced modern services with legacy systems.
- Worked with distributed teams, SWIFT & SIA infrastructure, and secure communication protocols.

Water Utility Company (Vilniaus Vandenys)

- Designed and led implementation of embedded distributed system for water refill station control and automated vehicle access monitoring.
- Used computer vision components for real-time object recognition and telemetry capture.
- Provided architectural guidance for field device firmware and cloud-level telemetry aggregation.

Technologies used:

Togaf, ADM, EA, .NET Framework, .NET Core, ASP.NET Core, Entity Framework Core, MS SQL Server, Oracle PL/SQL, Data Modeling, Microservices, Event-driven Architecture, CQRS / DDD, SOLID / Clean Architecture, MS Azure / AWS Basics, CI/CD Pipelines, Docker / Kubernetes, Security (OAuth2, JWT)

Team Leadership & Management   *Flinke Folk AS*

2014 – 2017

Built and led a Lithuanian branch for a Norwegian consulting company. Managed a full-cycle team of developers and implemented custom platforms for oil & gas industry clients. Focused on enterprise tooling for logistics, routing, HR, and financial planning.

Achievements:

Well Office

- Built and managed a local team of 7 developers from scratch in Lithuanian branch.
- Designed and delivered architectural solutions for Flinke Rigs, a toolset for oil & gas industry: logistics, HR/resource planning, project cost estimation, and routing.
- Used .NET stack, Agile methodologies, and tight coordination with Norwegian HQ.

Technologies used:

Agile, .NET, .NET Core, MS SQL, Azure AD, DevOps, Team Leadership, Project Management, System Architecture, Custom Platforms

Full-Stack & Enterprise Software Development   *Enterprise Sector*

2004 – 2014

Worked independently on custom solutions involving embedded systems, e-commerce platforms, and security-sensitive applications. Provided consulting and hands-on development across various industries.

Achievements:

BDO (Global Auditing Network)

- Developed and maintained Azure-based document and process automation systems using SharePoint and .NET stack.
- Integrated auditing flows across international offices and ensured secure access management.

UAB Lauresta

- Oversaw full-stack ERP system development; built 70+ custom applications and services.
- Infrastructure & Systems Administration

UAB Lauresta / Euroliuksas

- Administered on-premise and remote Windows Server infrastructure (2003–2012), Exchange, VMware, Cisco ISA.
- Planned backups, GPOs, VPNs for remote branches; implemented full-stack monitoring and support tools.

Technologies used:

.NET, Full-Stack Dev, Windows Server, MS SQL, Cisco ISA, VMware, SharePoint, Azure, Security, E-commerce, Custom Solutions, Process Automation, VPN, Access Management, ERP Systems, Infrastructure Admin, Monitoring Tools, Backup Planning

2010 – 2017
Oversaw complete IT infrastructure and ERP system development. Supported business operations through automation, system integration, and internal tool development.

Achievements:

UAB Galeo / Luktarna Project

- Architected and developed distributed inventory and payment system for 400+ gas stations.
- Technologies: C (agents), C# (WPF), Java (mobile UI), SQL Server, MS MVC, VMware.

Freelance Projects

- Embedded systems on Linux/Raspberry Pi, microcontrollers (C++, VHDL).
- Custom solutions in automation, e-commerce, mobile and desktop systems.

Technologies used:

C / C++, WPF, Java (mobile UI), SQL Server, VMware, Secure Communication, Embedded Linux / Raspberry Pi, VHDL