

# Nasui Adrian

My role is somewhere between Technical leader, software architect and software developer. I contribute to multiple projects spanning many business domains. I help build high performing teams. I learn about new technology as much as I can. I am curious by nature and try to keep an open mind about the world.

## Projects summary\*

\*there is more info on each project a few pages down

Project	Responsibilities	Technologies	Other info	Period
<b>Ey wavespace Bucharest</b>	<ul style="list-style-type: none"> <li>• Tech Lead</li> <li>• Architect</li> <li>• Growing teams</li> </ul>	C#, NET, NET Core, Angular, JavaScript, Git, Microsoft Azure Cloud, SQL, Cosmos DB, ML	<ul style="list-style-type: none"> <li>• Innovation Lab</li> <li>• Incubation of new products</li> <li>• Research</li> </ul>	Since 2018
<b>GM Backend 2.0</b>	<ul style="list-style-type: none"> <li>• Tech Lead</li> <li>• Architect</li> <li>• Developer</li> <li>• DevOps</li> </ul>	NET Core, Microservices, GitLab, Docker, Kubernetes, Linux	<ul style="list-style-type: none"> <li>• Research, Learning, Documenting.</li> <li>• Backend.</li> </ul>	Since 2017
<b>Access Control System</b>	<ul style="list-style-type: none"> <li>• Tech Lead</li> <li>• Architect</li> <li>• Developer</li> <li>• DevOps</li> </ul>	NET Framework PostgreSQL Service Stack Rest API, Redis, Zookeeper	<ul style="list-style-type: none"> <li>• Enhancements, fixes, refactoring, L3 support.</li> <li>• Backend.</li> </ul>	Since 2016
<b>GmCore</b>	<ul style="list-style-type: none"> <li>• Tech Lead</li> <li>• Architect</li> <li>• Developer</li> <li>• DevOps</li> </ul>	NET Framework MSSqlServer WEB API	<ul style="list-style-type: none"> <li>• Enhancements, fixes, refactoring, L3 support.</li> <li>• Backend.</li> </ul>	Since 2015
<b>Android Remote Viewer App</b>	<ul style="list-style-type: none"> <li>• Developer</li> </ul>	NET Framework Android SDK/Java Socket Programming	<ul style="list-style-type: none"> <li>• Real Time video streaming from devices to a server</li> <li>• Android NAtive Client + NET Backend</li> </ul>	2014
<b>BulkSms platform</b>	<ul style="list-style-type: none"> <li>• Developer</li> <li>• Support L3</li> </ul>	NET Framework SMPP messanging protocol Silverlight	<ul style="list-style-type: none"> <li>• Real Time processing</li> </ul>	2010-2015

## Skills

- Enterprise software architecture, analysis, design, development, QA, maintenance.

- .NET Framework and C# mostly, some Java
- Object Oriented Design, Clean Code, SOLID principles
- Working with many relational database (Oracle, PostgreSQL, SQL Server, MySQL, SQLite) and some NoSQL systems (CouchDB, Redis)
- Microsoft stack of software development tools
- My main focus has been backend development - APIs, Services.
- Transactional systems (transaction processing, financial accounting systems)
- Time-critical systems (SMS, real-time data transmission systems)
- 2+ years of experience as team leader of teams of 5-10 people.
- Architecture, design of small and mid-sized projects.
- DevOps aware, working with Docker, Kubernetes, and various other tools, and learning every day
- Writing documentation, specifications, creating diagrams, whatever it takes to communicate in a clear and efficient manner
- Code reviews, coding standards
- Automatic testing, design and writing - Unit and Integration tests.

## Education

### **2008 – 2010: Bucharest University of Economic Studies, Bucharest, Romania – IT Security Master Degree**

Informatics security studies including theoretical and laboratory works in Cryptography Basics, OOP, PKI and various other security topics

### **2004 – 2008: Bucharest University of Economic Studies, Bucharest, Romania – Computer Science Faculty, Specialized in Economy Computer Science.**

My thesis was “*Development of Distributed Sales Force Automation (SFA) Software for Mobile Devices using the Microsoft .NET Compact Framework*”

### **2000 – 2004: International Computer High School of Constanta**

Classes were taught in English, as it was an international private school.

My most notable high-school achievement was a Top 25 place (Mention) in the National Programming Olympiad in Bacau, 2001

## Work experience

**2006 – 10.2009: Winfront SRL.** Design, development and implementation of modules/add-ons for an ERP (Enterprise Resource Planning) System using Microsoft .NET Framework with C# and a MS SQL Server database, mostly as a Junior Developer.

**11.2009 – 04.2015: NetSun.** Design, development and implementation of Business Software Solutions.

**04.2015 – 11.2018: Everymatrix.** Extending, maintaining and refactoring a large-scale innovative .NET Software as a Service platform in the online betting and gaming industry. The main focus is a core application that handles users, accounts, 3rd party vendor integrations (games, payments and other) and a transactional system with around 10 mil. daily business transactions (at the moment of writing this). Around this core application we are building and maintaining other products (in a *microservices* approach) that add value to the platform. Team Leader and Architect.

**11.2018 – 02.2020: EY Romania.** Building software products within the EY wavespace Innovation lab. Ideas collected are processed based on the Lean Startup methodology. We facilitated the creation of Prototypes and MVPs (minimum viable product) that would later be used by EY as technology assets in providing services and value to customers.

## Projects - details

### Filbo

A Romanian Fintech dedicated to small businesses.

Filbo brings the joy of being an entrepreneur front and center, and aims to give back the freedom of creativity. And that means - no more paperwork. Clear view. Time to think about strategies. Whistle your way through ideas. Whistle your way through business finances. Because it doesn't have to be THAT complicated.

We continuously study, adapt and use Clean Architecture and Domain Driven Design(DDD) to create a distributed computing stack, called the Filbo 'platform', which is basically a suite of services augmented by azure functions, glued together by APIs, Messages and Events.

Our tech stack is cloud native on Azure, our platform and apps are built by using Asp Net Core 3.1 w/ C#, React, Nativescript, Javascript, Typescript, Serverless (Azure Functions), Orchestrations (Azure Durable Functions), Git - Azure DevOps.

Filbo is being built by an awesome team, using modern technology. We are continuously growing our core team, looking for Developers and Business Analysts, PM me if you are interested to learn more about our tech platform and how you can fit in our team.

### Ey wavespace Bucharest

The projects incubated in our innovation lab are built on the latest technology stack and fully cloud-native. I help build multiple teams, setup the development process, create consensus on technology decisions. My role also involves helping the teams maintain a stable delivery flow, eliminate blockers and finish work on time.

As part of my work, I find resources outside the company when our capacity cannot fulfill the development needs. This involves freelancers and software outsourcing companies. I delegate requirements to these external teams, elaborate architectural specifications and oversee quality of the delivery.

Some of the projects where I contribute are small (Minimum Viable Product) while others are in a more mature, evolved to the *scale-up* phase.

### GM Backend 2.0

We are migrating from a monolithic product (GmCore) to a host of microservices all hosted and running in our private cloud - in a Kubernetes infrastructure.

As a part of this migration, my team was active in creating new microservices, researching new products like Docker, Kubernetes and GitLab CI.

We follow all the best practices and recommendations for using the NET Core 2.0 framework and creating microservices (Continuous Integration, Monitoring, Resilience mechanisms, Creating Highly-available application clusters), we create automatic tests for all our projects (Unit and Integration tests),

We communicate with other teams for improved standardisation and overall adoption of new workflows and products - either directly, or in writing.

I, together with other Technical Leads, am responsible for pioneering, executing and overseeing this elaborate migration process.

## **Access Control System**

ACS is a product that powers our authentication and permission management processes for all of our backend products. The core of ACS revolves around resources that are linked to roles, that are later assigned to Back Office users, thus allowing (or denying) access to various parts of our platform.

The solution includes concepts such as caches, clusters, high availability, a management API (REST API built on top of the Servicestack API - self hosted service) and Unit and Integration tests.

## **GmCore**

**Role:** Architect, Developer, Team Leader.

**Technologies, concepts:** .NET, C#, SQL Server, PostgreSQL, WebAPI, Kafka, Docker.

**Description:**

- **As an architect**, I try to maintain a clean line between our products, make them work together smoothly and find the best solutions when there are difficult decisions that need to be made. Also I design frameworks, methodologies, I test ideas, I communicate with external teams, etc. I also design and support steps for migration to the new microservice architecture that the company is undertaking.
- **As a team leader**, I am responsible for the team to give its best performance. I talk to the team members, improve their work life within the team, understand their needs. I am responsible for interviews for new recruits (Having designed the technical interview process). I am responsible for giving feedback (positive or negative) to team members. I am also responsible for the team moving to and using new approaches, technologies, methodologies (TDD, Unit Testing, Clean Code, Automation Testing, etc).
- **As a developer**, I write code for the products where it is needed. Also, I write components/frameworks that are shared between teams/products.

## **Android Remote Viewer**

**Role:** Designer and developer.

**Technologies, concepts:** NET 2.0, Android SDK, Java, C#, Sockets, multithreading, Windows Services, Winforms

**Description:** Component that allows an admin to view the screen and send commands to Android clients that are registered to the service (this worked only from within our bigger android business app). This includes an administration windows application (view activity on

devices real-time, send real-time commands to a certain selected Android device), a windows service as the server of this infrastructure (all communication was done via sockets, by a commands and messages framework developed by me for this project. all logic was done in a thread-safe/async manner), and a Java Android SDK component that was the client side (receiving commands, broadcasting the screen to the server). This component was installed worldwide on more than 10k business android devices, and serves for offering better support to the users by the Support Team.

### **Financial services & Billing App**

**Role:** Examine business requirements from a technical side, Designer and Developer

**Technologies, concepts:** NET 4.0, Silverlight, WPF, MVVM, WCF RIA Services, Windows Services, Ms SQL Server 2012, C#

**Description:** Software that helps a large Financial company to connect to other systems and import data (Sql Linked Servers), input data, generate various documents, handle automatic processes, export data for various purposes (payment exports for banks, data exports for various departments) in various formats (xls, xlsx, pdf, csv). This has been an ongoing project for about 2 years.

### **Bulk SMS Sending Suite**

**Role:** Designer, Developer, Level 2 support (technical)

**Technologies, concepts:** NET 4.0, Silverlight, WCF RIA Services, WCF Services, Windows Services, Ms SQL Server, Sql Linked Server, SMPP protocol, EMI protocol, Sockets, C#, multithreading

**Description:** Suite that enables sending of bulk SMS for our customers. This includes a windows service that connects to SMSC services( via various protocols implemented on a Socket level and sends Sms or receives information about sent sms), A Web Service API for our customers (to send messages and receive their statuses), a Silverlight application that enables clients to load their messages into our server. I was responsible with extending this architecture with new features and technical support. I was also one of the 2 designers of the Silverlight application.

### **Miscellaneous:**

- Passionate technology 'geek'
- Always looking to improve myself
- Actively interested in areas like clean energy, mass transportation and the future of healthcare
- Passionate about travelling, music and outdoor sport activities