



Teodor Chirileanu

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About me

I'm Teodor, a senior .NET developer with more than eight years of experience building .NET solutions across finance, energy, and fintech domains.

My focus is on backend development — designing clean, scalable architectures in .NET, using Azure, microservices, and event-driven communication. On the frontend, I've also worked with Angular, Blazor, and Vue, which helps me keep a full picture of the stack.

I've contributed to both fast-moving startups and large enterprise projects, always emphasizing reliability, performance, and clear design. What I enjoy most is taking complex technical problems and turning them into elegant, maintainable solutions that make a real impact.

I'd describe myself as pragmatic, detail-oriented, and always aiming for technical excellence.

Work experience

Senior Backend .NET & Azure Developer | Deloitte | 03/02/2025 - 28/11/2025 | United States

Deloitte is a global professional services network. The project, Delphi Enterprise Transformation Platform (ETP), facilitates complex data synchronization and integration for large-scale enterprise environments. The role focused on the Integration Agent, a backbone for data synchronization within the Intelia ecosystem, ensuring data consistency across distributed domains and enhancing system resilience.

Responsibilities

Designed and implemented scalable backend solutions for the Delphi Enterprise Transformation Platform (ETP) using .NET and C#, focusing on the Integration Agent and CdcPublisher components.

Engineered robust message processing pipelines using Azure Service Bus and Azure Event Hub, implementing advanced features like poison message handling and batch processing.

Developed the Integration SDK for Dataset and Trial Balance, standardizing external event consumption and data publishing workflows.

Key Achievements

Business Value Delivery: Extended Integration APIs to support Intelia Master Data (Variable Attributes, Entity Collections), directly enabling new business capabilities for cross-domain data synchronization and reducing data silos.

Enhanced Reliability: Successfully implemented a "Resend Broken Messages" mechanism and "Poison Message" handling for Azure Service Bus, drastically reducing manual intervention for synchronization failures and ensuring data integrity.

Performance Optimization: Optimized partitioning strategies for synchronization status and published messages, improving database performance and data manageability.

Quality Assurance: Fixed critical integration test failures and expanded test coverage for complex scenarios like "Regional Jobs" and "Workarea Entity" synchronization.

Technical Environment

Languages: C#, SQL

Frameworks: .NET, ASP.NET Core, Azure Service Bus, Azure Event Hub

Tools: Azure DevOps, Visual Studio, Git, Azure SQL Server, Azure APIM, TDD

Senior Backend .NET & SQL Developer | CFP Energy | 01/03/2025 - 01/10/2025 | London, United Kingdom

CFP Energy is a leading energy trading company in the UK, specializing in wholesale electricity and gas trading, risk management, and market analysis. The company focuses on optimizing energy portfolios through advanced data analytics and real-time market monitoring systems. Their platform enables efficient trading operations while ensuring compliance with regulatory requirements and market standards.

Responsibilities

Led the backend development of Mercury, a greenfield application designed to streamline trading of carbon instruments.

The solution utilized .NET microservices communicating through Kafka topics, real-time frontend updates via SignalR, PostgreSQL for persistent storage, and integration with Molecule API for trade settlement.

Key Achievements

Designed and Implemented Ring-Fenced Architecture: Led the architecture design for automated ring-fencing of carbon trades, leveraging clean architecture principles and expressing complex requirements through Mermaid diagrams.

Implemented Molecule API Integration: Created the Molecule API client and adaptor, enabling end-to-end workflows for new trades along with fees and commissions, while ensuring simplicity and resilience.

Micro Frontend Development: Developed micro frontends for the backend services, leveraging modern web technologies to achieve ease of testing and faster delivery.

Real-Time Trade Event Notifications: Implemented real-time communication with the Angular frontend via SignalR/WebSockets, informing end users about trade events as soon as possible.

Advanced Microservices Communication: Optimized inter-service communication by implementing Kafka topics with Avro serialization, achieving high performance and efficient data transfer between microservices.

Technical Environment

Languages: C#, SQL, Mermaid

Frameworks: .NET, Azure, Kafka, Entity Framework, PostgreSQL, SignalR

Tools: Rider, Postman, Miro, GitHub, Molecule, Aspire, TDD, Azure, Refit, Polly

Senior Fullstack .NET & Vue Developer | European Union Agency for Asylum | 01/03/2025 - 01/07/2025 | Valletta, Malta

EUAA is a European Union agency that plays a crucial role in implementing the EU's common asylum system. It provides operational and technical assistance to EU Member States, ensuring consistent asylum procedures across Europe. The agency delivers training, quality support, and data analysis to strengthen the EU's capacity to protect those seeking international protection.

Responsibilities

The project utilized a Vue.js frontend to provide an administrative interface where users could manage expert assignments to deployment and operational plans.

The system allowed administrators to assign countries, track expert availability, and manage various operational aspects through a task-oriented, modern, responsive interface.

Backend services were built with .NET Core, providing RESTful APIs.

Key Achievements

Enhanced Resource Planning with Real-Time Analytics: Engineered the backend of an interactive dashboard for deployment plans that provides instant visibility into expert allocation patterns. This feature aggregates and displays monthly summaries.

Rights Management System Redesign: Contributed to a backend redesign of the rights management system using custom authorization attributes on controllers and middleware-level permission checks. Implemented backend route guards based on user roles and permissions, leading to better page accessibility and security.

Implemented Cascades Functionality: Developed a comprehensive table and dialog system for linking expert profiles with tasks, significantly reducing manual data entry time and improving data consistency across the system.

Optimized API Performance: Significantly improved task fetching performance by optimizing SQL entity relationships, reducing response time from 600 to 30 seconds.

Technical Environment

Languages: C#, SQL, JavaScript, TypeScript

Frameworks: .NET, ASP.NET, Azure, Entity Framework, VueJS

Tools: Rider, Azure DevOps, Visual Studio

Senior Backend .NET & SQL Developer | EPS | 01/02/2025 - 01/06/2025 | Vilnius, Lithuania

EPS LT is a leading payments solution provider based in Lithuania, serving major clients across the Baltics, Central, and Eastern Europe. The company specializes in developing and maintaining robust card-based infrastructure for fleet, insurance, and gift card management, as well as custom corporate payment and loyalty solutions.

Responsibilities

Provided support and developed new features across multiple solutions, including databases, admin web interfaces, client web portals, and backend services.

Worked on FIG (Fleet, Insurance, Gift Cards), a comprehensive platform where each client had its own suite of solutions.

Key Achievements

Implemented a comprehensive Dynamic Insurance Discount System for pharmacies, enabling automated gratuities and reductions based on product categories and insurance policies.

Designed and built an internal tool for importing both real and test ATC codes, allowing pharmacies to assign reduction codes to products based on standardized templates.

Enhanced database performance by implementing a SQL cleanup procedure that removed expired card limits from production, reducing maintenance costs and providing clearer client usage insights.

Successfully re-architected the database system, consolidating multiple client databases into a single source of truth, which improved data

reliability and reduced operational costs.

Technical Environment

Languages: C#, SQL, Razor

Frameworks: .NET, ASP.NET, tSQLt

Tools: Rider, GitLab, TeamCity, Octopus, SoapUI

Senior Fullstack .NET & Blazor Developer | Lykke | 30/06/2024 - 30/11/2024 | Zug, Switzerland

Lykke is a Swiss fintech company using blockchain technology to revolutionize financial markets. It offers a zero-fee cryptocurrency exchange platform with access to various digital assets, while also providing blockchain-based solutions for businesses in the financial and service industries.

Responsibilities

Developed and implemented critical components for Lykke's trading platform and infrastructure, focusing on enhancing security, automating deployments, and integrating Python-based quantitative models with the existing C# ecosystem.

Key Achievements

Enhanced Security and Streamlined Credential Management: Successfully integrated Lykke's systems with a secrets manager, eliminating hardcoded credentials and significantly improving the applications' security posture.

Foundation for Robust CI/CD Pipeline: Laid the groundwork for a new CI/CD automation system, enabling continuous integration and delivery of software updates. Included setting up GitHub workflows and deployment pipelines.

Bridging the Gap between Python and C#: Developed a critical Python-C# bridge, enabling seamless integration of Lykke's C# infrastructure with new Python-based algorithms and machine learning models. This was essential for projects in trading signal generation, risk analysis, and market prediction.

Technical Environment

Languages: C#, Razor, Python, SQL, YAML

Frameworks: .NET, ASP.NET, Blazor

Tools: Rider, PyCharm, Docker, AWS

Senior DevOps .NET & Azure Engineer | Itineris | 31/10/2022 - 31/12/2024 | Ghent, Belgium

Itineris is a technology company specializing in cloud-based software solutions for the utilities industry, particularly energy and water companies. Contributed to UMAX, their flagship product built on Microsoft Dynamics 365 and hosted in Azure Cloud, streamlining processes like meter-to-cash and customer engagement.

Responsibilities

Worked across several energy-sector organizations to leverage cutting-edge technology for energy management and billing systems, including Flogas (LPG) and SSE (renewable energy).

Utilized Azure Cloud infrastructure to manage and process large-scale energy consumption data.

Key Achievements

Revamped the TimeSamples System: Spearheaded the modernization of the raw meter data ingestion system, enabling accurate billable data calculation and synchronization with the pricing engine for tariff calculations.

Reliable Infrastructure as Code: Successfully implemented and maintained IaC using Bicep, ensuring consistent and repeatable deployments with minimal downtime.

Optimized Data Processing: Significantly improved performance and scalability of Databricks jobs handling large volumes of metering data, boosting efficiency in customer usage analysis.

Modernized Azure Infrastructure: Led migration of Azure Functions to .NET 8 and ASEv3, enhancing performance, security, and scalability.

Developed D365 F&O Data Entity Management Tool: Built a custom .NET application for managing Data Entities within Dynamics 365 Finance & Operations.

Technical Environment

Languages: C#, Bicep, Python, SQL

Frameworks: .NET, ASP.NET, Azure, D365, Jupyter

Tools: Rider, Azure DevOps, Azure Functions, Logic Apps, API Management, Data Lake, Databricks

Senior Backend .NET & SQL Developer | ING Bank | 31/03/2023 - 31/08/2024 | Bucharest, Romania

ING Bank Romania, established in 1994, is a leading global financial institution offering a wide range of products and services to individuals, SMEs, and large corporations. Integral part of the BPM Core team, developing and maintaining the essential runtime platform powering all internal enterprise applications. Designed as an n-tier architecture with plug-and-play modules, supporting mission-critical applications for business lending, leads management, business banking, and card issuing. Seamlessly integrated with various frontend solutions, such as FABO, NARC, and Homebank, through a robust and well-defined API.

Responsibilities

Played a crucial role in developing and maintaining the essential runtime platform for all internal enterprise apps.

Supported a diverse range of business-critical applications through an n-tier, plug-n-play architecture.

Integrated platform with various frontend applications and APIs.

Collaborated with cross-functional teams to ensure platform stability, performance, and scalability.

Key Achievements

User Session Statelessness: Successfully migrated user session storage from an in-memory model to Redis, significantly enhancing fault tolerance and scalability across the cluster.

L3 Production Support: Provided comprehensive third-level support, troubleshooting complex issues, analyzing logs, and communicating solutions to stakeholders.

Enhanced Health Checks: Implemented and extended health checks to encompass all core service dependencies, proactively monitoring vital databases and external assemblies.

Led the successful upgrade to .NET 8 across multiple enterprise applications, resulting in measurable performance improvements and compatibility with the latest Microsoft technologies.

Sustainability Initiative: Championed the adoption of QR code-based business cards for front-office banking officers.

Technical Environment

Languages: C#, Visual Basic, SQL, YAML, JavaScript

Frameworks: .NET, ASP.NET, WCF, Arm Templates

Tools: Rider, Grafana, Docker, K6, Azure DevOps

Senior Fullstack .NET & Blazor Developer | American Express | 28/02/2023 - 30/06/2024 | North Carolina, United States

Amex is a global integrated payments company providing customers with access to products, insights, and experiences that enrich lives and build business success. Offers a range of financial products and services, including credit and charge cards, merchant acquisition and processing, network services, travel, and insurance.

Responsibilities

Contributed to the development and integration of key payment products such as WebFASTest, vATM, and NGS (a payment certification tool).

Leveraged expertise in C# on .NET, Razor on Blazor, SQL databases, and Azure Cloud to ensure functionality and integration within existing payment infrastructure.

Collaborated with cross-functional teams and maintained adherence to strict industry standards for payment processing and certification.

Key Achievements

Introduced UI testing with Playwright: Implemented automated UI testing framework in the absence of QA, ensuring client acceptance criteria were met and reducing manual testing.

Spearheaded the greenfield development of NGS: Led the development of the NGS payment certification tool using Blazor, establishing a robust and flexible UI component system from scratch.

Streamlined deployment processes: Developed PowerShell and Cake scripts for automated building, packaging, and deployment of binaries.

Provided support and maintenance for a legacy system: Ensured functionality and stability of a critical legacy system, documenting and extracting key information (EMV chip card data, etc.) for the modernized system.

Mentored junior developers on best practices: Shared expertise in TDD, clean code, and continuous integration.

Technical Environment

Languages: C#, Visual Basic, Razor, Powershell, Cake

Frameworks: .NET, ASP.NET, Blazor, WCF

Tools: Rider, Playwright, Bamboo, DataGrip, vATM, WebFT

Senior Fullstack .NET & React Developer | Klips | 31/07/2022 - 28/02/2023 | Tel Aviv, Israel

Klips is a fast-growing fintech company revolutionizing the financial industry with its next-generation Financial Hub. This unified platform offers a comprehensive suite of services, including CFD trading, digital banking, shares dealing, payments, and CRM.

Responsibilities

Together with the team, created an MVP for a cryptocurrency wallet using a modern technology stack: .NET, SignalR, NATS, Redis, React, and NoSQL databases.

Integrated platform with multiple liquidity providers, enabling essential features like deposits, swaps, and withdrawals.

Key Achievements

MVP Delivery & Business Validation: Participated in the creation of a minimum viable product (MVP) for a cryptocurrency wallet, validating core business ideas like fiat/crypto deposits, swaps, and withdrawals.

Real-Time Monitoring & Alerting: Implemented comprehensive Grafana dashboards to monitor system metrics, enabling proactive issue detection/resolution by triggering automated alerts.

Sub-Millisecond Communication Architecture: Implemented microservice communication using Kafka with Avro serialization, achieving sub-millisecond latency and ensuring data consistency across services.

Real-Time Crypto Quotations via WebSockets: Implemented WebSocket technology to deliver live crypto quotations directly to the mobile wallet page, enhancing user experience and enabling real-time decision-making.

Technical Environment

Languages: C#, Powershell, SQL, JavaScript

Frameworks: .NET, ASP.NET, GCP, React, SignalR

Tools: Rider, Redis, NATS, Docker, Kubernetes, MongoDB, Grafana, Prometheus

Senior Fullstack .NET & Angular Developer | AXA Investment Managers | 30/06/2022 - 31/01/2023 | Paris, France

Axa IM is the investment arm of AXA Group, a world leader in financial protection and wealth management. Committed to responsible investing, AXA IM integrates environmental, social, and governance factors into its investment processes. The technical environment features a mix of .NET and Angular technologies, focused on delivering a responsive, scalable, and secure platform for managing derivatives investments. The platform leverages the SimCorp Dimension system for core portfolio management functionality and utilizes SQL for efficient data operations.

Responsibilities

Developed and maintained a platform for managing derivatives investments with .NET and Angular, ensuring responsiveness and security.

Designed and delivered innovations in derivatives pricing and automation for option traders.

Supported decommissioning and modernization of legacy systems.

Built comprehensive automated testing using UFT One.

Key Achievements

Derivatives Pricing Innovation: Spearheaded the implementation and extension of a new derivatives credit pricing system, complete with all necessary financial models.

Trader Empowerment Through Automation: Delivered mission-critical information about options directly to traders, enabling automated execution of unwinds/roll forwards and reducing manual labor by a factor of 10.

Legacy System Decommissioning: Successfully decommissioned ~20% of Global One, a legacy repurchase agreement management system.

Automated Functional Testing Implementation: Developed extensive automated functional tests with UFT One, reducing manual effort by ~80%.

Technical Environment

Languages: C#, TypeScript, SQL, JavaScript

Frameworks: .NET, ASP.NET, Angular, Cypress

Tools: Rider, SSMS, WebStorm, SimCorp Dimension, UFT One

Lead Fullstack .NET & Angular Developer | Beenear | 31/05/2021 - 31/05/2022 | Iasi, Romania

BeeNear is the company behind OpenFinance, Italy's leading accounting software, empowering businesses to streamline financial operations and make informed decisions. EasyOne is an industry-leading CRM adopted across the Iberian Peninsula, enabling businesses to build stronger customer relationships.

Responsibilities

Led the development and modernization of OpenFinance to deliver a responsive, scalable, and secure accounting platform.

Strategically refactored EasyOne from a solid GUI core into a microservices architecture, enhancing flexibility and maintainability.

Key Achievements

OpenGate Modernization: Led the successful migration of the legacy OpenGate accounting software from Microsoft WebForms to Angular 12, significantly improving performance and modernizing the stack.

Threefold Performance Increase: Enhanced OpenGate's performance by rewriting two critical components in Angular, resulting in a markedly faster, more responsive user experience.

CRM Refactoring to Microservices: Spearheaded EasyOneCRM's transformation from a monolithic WPF application into a microservices architecture, boosting scalability, flexibility, and maintainability.

7x Faster Login: Achieved a sevenfold reduction in login loading time through innovative redesign, dramatically improving user access and satisfaction.

Technical Environment

Languages: C#, TypeScript, SQL, JavaScript

Frameworks: .NET, ASP.NET MVC, Angular, WebForms

Tools: Visual Studio, SSMS, DataGrip, Autofac, Moq

Backend .NET & Python Developer | Électricité de France - Enedis | 31/01/2019 - 31/01/2021 | Paris, France

Enedis is a leading French electricity distribution company, managing and operating 95% of the medium- and low-voltage electricity network across France. It ensures reliable and efficient energy distribution to residential, commercial, and industrial clients. Contributed to Talon, an N-Tier

application framework that leverages advanced algorithms to compute a range of electrotechnical metrics for the French electrical grid. Key functionalities include calculating the cost of new connections for end users, providing accurate cost estimations.

Responsibilities

Enedis Talon is an N-Tier application framework that leverages advanced algorithms to compute electro-technical metrics for the French electrical grid.

Key functionalities include calculating the cost of new connections for end users, providing Enedis with accurate cost estimations.

Key Achievements

Base Tier Rework: Led the successful re-engineering of a core tier within Talon, significantly improving the system's overall performance, stability, and responsiveness.

GUI Development for Workflow Generation: Designed and implemented a user-friendly GUI using WPF and GoXam, simplifying the process of creating and visualizing complex electrical workflows for non-technical users.

Code Generation Pipeline: Created an innovative code generation pipeline capable of translating functional specifications directly into C# code, drastically accelerating development cycles.

Supervisor Development: Built a sophisticated Supervisor module to autonomously monitor, deploy, and configure Talon modules, ensuring optimal system health.

Technical Environment

Languages: C#, Python, Mermaid, DPL, C++

Frameworks: .NET, Parsimonious, WCF, WPF

Tools: Rider, yEd, GoXAM, PyCharm, PowerFactory

Backend .NET & SQL Developer | Société Générale | 31/05/2018 - 31/12/2018 | Paris, France

Société Générale Corporate & Investment Banking (CIB) is a leading global financial institution offering a wide range of investment banking, financing, and advisory services. It provides tailored solutions in capital markets, structured financing, asset management, and risk management to corporations, financial institutions, and public sector clients. Contributed to the development of Liqor, a cutting-edge solution designed to streamline liquidity reporting for financial institutions. By automating the calculation of complex metrics and generating compliant reports for the BDF and BCE, Liqor significantly reduces the time and resources traditionally required for these tasks.

Responsibilities

Liqor is an internal financial application developed to automate liquidity reporting, utilizing sophisticated algorithms to calculate various liquidity metrics based on real-time financial data.

Features a report generation module capable of producing customized reports in accordance with BDF and BCE requirements.

Key Achievements

Basel III Implementation: Successfully integrated new liquidity metrics required by Basel III regulations, ensuring compliance and contributing to accurate risk assessment.

SSIS Script Optimization: Rewrote and optimized critical SSIS scripts, achieving a 35% performance improvement and reducing processing time.

XML Parser Development: Developed a custom XML parser that reduced data integration time for a new data source by threefold, accelerating development cycles.

CI Pipeline Redesign: Redesigned and upgraded the CI pipeline from TeamCity 2008 to 2018, resulting in a near tenfold performance improvement and streamlined deployment processes.

Production Monitoring: Ensured stability and performance of Liqor's production environment.

Technical Environment

Languages: C#, Powershell, Gherkin, SQL

Frameworks: .NET, ADO, ASP .NET, SSIS

Tools: Visual Studio, SSMS, TeamCity, XL Deploy

Fullstack .NET & Angular Developer | Tricentis | 30/11/2017 - 30/04/2018 | Vienna, Austria

Tricentis is a global leader in enterprise software testing solutions, empowering businesses to achieve faster, higher quality software releases at lower cost. Its codeless approach and AI-powered risk-based testing streamline the testing process, increasing efficiency and reducing time-to-market. Tricentis Tosca's model-based test automation and broad technology support enable the creation of reusable and scalable test cases, significantly reducing maintenance efforts and allowing efficient testing of diverse applications from GUI to mobile. Contributed to its flagship product, Tricentis Tosca, which enables risk-based testing, reduces maintenance efforts, and ensures faster time-to-market.

Responsibilities

Full-stack developer driving cloud migration from monolithic architecture to microservices.

Worked on decomposition of monolithic systems and developed new features across the entire technology stack.

Key Achievements

Participated in modernization efforts: Worked on the decomposition of a monolithic architecture into microservices, resulting in a significant 50%+ performance improvement.

Introduced valuable features: Implemented user management and profile editing functionalities in the Cloud Portal, addressing key user needs and increasing platform usability.

Prioritized stability and user experience: Proactively implemented health check mechanisms for microservices, ensuring system reliability and minimizing downtime. Streamlined authentication processes with configurable Auth0 token storage for improved user experience.

Established foundation for future growth: Migrated to Git and developed CI/CD pipelines, fostering efficient and collaborative development environments.

Technical Environment

Languages: C#, TypeScript, SQL

Frameworks: .NET, Angular, Entity Framework, ASP .NET

Tools: Visual Studio, Robo 3T, Azure DevOps, Auth0

Education & Training

Bachelor of Computer Science | Universitatea „Alexandru Ioan Cuza” - 01/09/2014 - 01/06/2017 | Iasi, Romania

Level in EQF 6

Professional Cloud Developer Certification | Google

Microsoft Certified: DevOps Engineer Expert | Microsoft | 01/11/2024 - 01/11/2025

AWS Certified DevOps Engineer - Professional | Amazon Web Services (AWS)

Microsoft Certified: Azure Developer Associate | Microsoft

Certified Fintech Expert | Blockchain Council

ISO 27001 Foundation - Information Security Certification | ISO

From Zero to Hero: Dependency Injection in .NET with C# | Dometrain

Certified Frontend Developer | W3Schools.com

Programming in C# Certification | Microsoft

Certified SQL Developer | W3Schools.com

Professional Scrum Developer | Scrum.org

Certified Tester - Foundation Level | ISTQB

Language Skills

Mother tongue(s): **Romanian**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

Skills

C# | .NET | ASP.NET | .NET 8 | .NET 6 | ASP.NET Web API | ASP.NET MVC | VB.NET | Entity Framework | .NET core | Gherkin | Web API | RESTful APIs | JavaScript | Python | Typescript | Angular | React | Powershell | HTML | CSS | XML | SQL | MS SQL Server | Microsoft Copilot Studio | Microsoft Power Platform | Sharepoint online | Microsoft Entra ID (AzureAD) | Azure DevOps | GCP | AWS | Azure | DataBricks | Docker | Grafana | Git | PyCharm | Rider | Blazor | Razor | Yaml | ELK Stack (Elasticsearch Logstash Kibana) | Playwright | Cake | Razor SQL | Swagger | Postman | Kubernetes | MongoDB | Prometheus | Redis | Cypress | Visual Studio | Auth0 | Jira | Unit tests