



## Abstract

Professional programmer with 8 years of experience in developing software solutions

## About

An A-list developer with hands-on expertise in *crypto exchanges, financial services and energy trading*. Leveraging **clean code, simple design** and *strategic AI usage* to improve **time to market** and **accelerate digital transformation**.

## Skills

**.NET, Azure, Angular, Blazor, Python, Docker, Kubernetes, Kafka, MongoDB, Redis, PowerShell, Visual Basic, Google Cloud Platform, Amazon Web Services**

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## Experience & Training

### Crypto Exchanges

.NET Developer @ Lykke

.NET Developer @ Klips

### Financial Services

.NET Developer @ ING Bank

.NET Developer @ Amex

.NET Developer @ Axa IM

.NET Developer @ SG CIB

### Energy Distribution & Trading

.NET Developer @ CFP Energy

.NET Developer @ Itineris

.NET Developer @ Enedis

### Other

.NET Developer @ EUAA

.NET Developer @ EPS

.NET Developer @ Tricentis

### Certifications

Microsoft DevOps Engineer Expert

AWS DevOps Engineer Professional

Google Cloud Professional Developer

Blockchain Certified Fintech Expert

### Courses

Architecture & Design Masters Class by Uncle Bob

Professional Scrum Developer by Scrum Alliance

TDD, Clean Code & Refactoring by Uncle Bob

### Education

Bachelor of Computer Science

French Baccalaureate Diploma

### Favorite Books

C# in Depth, Extreme Programming Explained, Clean Code & Architecture, Refactoring, DDD, Design Patterns, The Pragmatic Programmer, Soft Skills, Concurrency in C#, The Art of Unit Testing

## What do other say about me?

“ Teodor is a very valuable addition to our team. He demonstrated a exceptional depth of technical expertise and worked very efficiently and fast. He is a pleasure to work with, both professionally and personally. Looking forward to his continued growth and the positive impact he will undoubtedly have on Lykke's projects.

— Richard Olsen, CEO @ Lykke

“ Teodor is a passionate young man, carrying the Carpathian profundity in his heart. His interests are wide spread and go beyond his profession. As you say: passion does not spread thin - so great level of energy which he brings to each and every task he works on. Keep on going, Teo!

— Wolfgang Platz, Founder @ Tricentis

“ Teo has a warm, approachable demeanor and consistently demonstrates an exceptional level of dedication to his work. He creates a supportive environment for those around him, and he’s always willing to go the extra mile to achieve success.

– Gernot Brandl, Director of Product Management @ UIPath

## Backend Developer @ CFP Energy (UK) : 03/25 - 08/25

### 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

### Project Description

*Business:* 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.

*Technical:* 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.

## Backend Developer @ Itineris (Belgium) : 11/22 - 08/25

### 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

### Project Description

*Business:* 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 the Azure cloud streamlining processes like meter-to-cash and customer engagement.

*Technical:* The project spanned several energy-sector organizations focused on leveraging cutting-edge technology to enhance energy management and billing systems. Flogas, a leading energy supplier

### Key Achievements

*Revamped the TimeSamples System:* Spearheaded the modernization of the TimeSamples system, responsible for ingesting raw meter data, generating billable data, providing estimates for missing reads, and synchronizing with the pricing engine for accurate tariff calculations

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

*Optimized Data Processing:* Significantly improved the performance and scalability of Databricks jobs handling large volumes of metering data, enhancing the ability to process and analyze customer usage data efficiently.

*Modernized Azure Infrastructure:* Led the migration of

specializing in LPG, served a wide range of clients from residential to industrial sectors. SSE, a UK-based leader in renewable energy. The projects utilized Azure Cloud infrastructure to manage and process large-scale energy consumption data.

Azure Functions to .NET 8 and ASEv3, improving performance, security, and scalability of the platform.

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

## Backend Developer @ EUAA (Malta) : 03/25 - 07/25

### Technical Environment

*Languages:* C#, Sql

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

*Tools:* Rider, Azure DevOps, Visual Studio

### Project Description

**Business:** 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.

**Technical:** 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 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.

## Backend Developer @ EPS (Lithuania) : 02/25 - 06/25

### Technical Environment

*Languages:* C#, SQL, Razor

*Frameworks:* .NET, ASP.NET, tSQLt

*Tools:* Rider, GitLab, TeamCity, Octopus, SoapUI

### Project Description

**Business:** 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

**Technical:** Worked on FIG (Fleet, Insurance, Gift Cards), a comprehensive platform where each client had its own suite of solutions including databases, admin web interface, client web portal, and backend services. The role involved providing support and developing new features across the entire technology

### Key Achievements

**Implemented Dynamic Insurance Discount System:** Developed a comprehensive health insurance discount system for pharmacies, enabling automated application of gratuities and reductions based on product categories and insurance policies.

**Implemented ATC Code Import System:** Designed and built a system to import both real and test ATC codes, providing pharmacies an internal tool to flexibly assign reduction codes to products based on standardized templates.

**Optimized Database Performance:** Implemented a SQL cleanup procedure that removed expired card limits from production, reducing maintenance costs and providing clearer insights into client usage patterns and trends.

**Re-architected Database System:** Successfully consolidated multiple client databases into a single source of truth, reducing operational costs and

stack, ensuring seamless integration and optimal performance of all components.

complexity while moving business logic from stored procedures into maintainable C# code.

## Backend Developer @ Lykke (Switzerland) : 07/24 - 12/24

### Technical Environment

*Languages:* C#, Razor, Python, SQL, Yaml

*Frameworks:* .NET, ASP.NET, Blazor

*Tools:* Rider, PyCharm, Docker, AWS

### Project Description

*Business:* 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.

*Technical:* 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 the need for hardcoded credentials and significantly improving the security posture of the applications.

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

*Bridging the Gap between Python and C#:* Made significant progress in developing a critical Python-C# bridge, enabling seamless integration of Lykke's existing C# infrastructure with new Python-based algorithms and machine learning models. This bridge is essential for upcoming projects focused on trading signal generation, risk analysis, and market prediction.

## Backend Developer @ ING Bank (Romania) : 04/23 - 09/24

### Technical Environment

*Languages:* C#, Visual Basic, SQL, Yaml, JavaScript

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

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

### Project Description

*Business:* Established in 1994, considered a leading global financial institution, ING Bank offers a wide range of products and services to individuals, small and medium-sized enterprises, and large corporations.

*Technical:* Within the BPM Core team at ING Bank Romania, I played a crucial role in developing and maintaining the essential runtime platform that powered all internal enterprise applications. This platform, built on an n-tier architecture and utilizing plug-n-play modules, supported a diverse range of mission-critical business applications, including business lending, leads management, business banking, and card issuing. The platform seamlessly integrated with various frontend applications, such as FABO, NARC, and Homebank, through a robust and well-defined API. Responsibilities encompassed collaborating with cross-functional teams to ensure the platform's stability, performance, and scalability, while actively supporting these business-critical

### Key Achievements

*User Session Statelessness:* Successfully migrated user session storage from an in-memory model to Redis. This significantly enhanced the fault tolerance and scalability of applications across the entire machine cluster.

*L3 Production Support:* Provided comprehensive L3 production support, acting as a liaison between business analysts, configurators, and external stakeholders. This involved troubleshooting complex issues, analyzing logs, and communicating solutions effectively to all parties involved.

*Enhanced Health Checks:* Implemented and extended health checks to encompass all core service dependencies. This included monitoring vital databases and external assemblies developed by other teams, ensuring proactive identification and resolution of potential problems.

*Led the successful upgrade to .NET 8* across multiple enterprise applications. This upgrade resulted in measurable performance improvements and ensured seamless compatibility with the latest Microsoft technologies.

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

processes.

## Backend Developer @ American Express (United States) : 03/23 - 07/24

### Technical Environment

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

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

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

### Project Description

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

*Technical:* 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 seamless functionality and integration of these products within the existing payment infrastructure. This work involved extensive collaboration with cross-functional teams and adherence to rigorous industry standards for payment processing and certification.

### Key Achievements

*Introduced UI testing with Playwright:* Implemented automated UI testing framework using Playwright in the absence of a dedicated QA team, ensuring client acceptance criteria for payment certification scenarios were met and reducing manual testing efforts.

*Spearheaded the greenfield development of NGS:* Led the development of the NGS payment certification tool using modern technologies like 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 the continued functionality and stability of a critical legacy system, while also documenting and extracting key information, such as EMV chip card application and tags, to make it accessible throughout the modernized system.

*Mentored junior developers on best practices:* Shared expertise in test-driven development (TDD), clean code principles, and continuous integration.

## Backend Developer @ Klips (Israel) : 08/22 - 03/23

### Technical Environment

*Languages:* C#, Powershell, SQL, JavaScript

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

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

### Project Description

*Business:* 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.

*Technical:* Together with the team we created an MVP for a cryptocurrency wallet using a modern technology stack including .NET, SignalR, NATS, Redis, React and NoSQL databases. This platform integrated 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 and crypto deposits, swaps, and withdrawals.

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

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

*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.

## Backend Developer @ Axa IM (France) : 07/22 - 02/23

### Technical Environment

*Languages:* C#, TypeScript, SQL, JavaScript

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

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

### Project Description

*Business:* As the investment arm of AXA Group, a world leader in financial protection and wealth management, AXA IM is committed to responsible investing, integrating environmental, social, and governance factors into its investment processes.

*Technical:* The technical environment consists of a mix of .NET and Angular technologies, with a focus 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.

### Key Achievements

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

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

*Legacy System Decommissioning:* Successfully decommissioned approximately 20% of Global One, a company-wide legacy system responsible for repurchase agreement management.

*Automated Functional Testing Implementation:* Developed a comprehensive suite of automated functional tests using UFT One, covering critical business processes and reducing manual testing efforts by approximately 80%.

## Backend Developer @ BeeNear (Romania) : 05/21 - 05/22

### Technical Environment

*Languages:* C#, TypeScript, SQL, JavaScript

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

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

### Project Description

*Business:* OpenFinance is Italy's leading accounting software, empowering businesses to streamline financial operations & make informed decisions. EasyOne is an industry-leading CRM solution widely used across the Iberian peninsula, enabling businesses to build stronger customer relationships.

*Technical:* OpenFinance leverages a modern frameworks to deliver a responsive, scalable, and secure accounting platform. EasyOne is built on a solid GUI core and has been strategically refactored into a microservices architecture, enhancing its flexibility & 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 technology stack.

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

*CRM Refactoring to Microservices:* Spearheaded the transformation of EasyOneCrm 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 architectural redesign, dramatically improving user access and satisfaction.

## Backend Developer @ Enedis (France) : 02/19 - 02/21

### Technical Environment

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

*Frameworks:* .NET, Parsimonious, WCF, WPF

*Tools:* Rider, yEd, GoXAM, PyCharm, PowerFactory

### Project Description

### Key Achievements

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

*GUI Development for Workflow Generation:* Designed

**Business:** Enedis Talon is a powerful internal tool designed to optimize the management of France's electrical grid. It empowers Enedis to efficiently calculate crucial electro-technical metrics, including the cost of new connections for customers.

**Technical:** Enedis Talon is an N-Tier application framework that leverages advanced algorithms to compute a range of electro-technical metrics for the French electrical grid. Key functionalities include calculating the cost of new connections (raccordements) for end users, providing Enedis with accurate cost estimations.

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.

## Backend Developer @ Societe Generale (France) : 06/18 - 01/19

### Technical Environment

**Languages:** C#, Powershell, Gherkin, SQL

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

**Tools:** Visual Studio, SSMS, TeamCity, XL Deploy

### Project Description

**Business:** Liqor is 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.

**Technical:** Liqor is an internal financial application developed to automate liquidity reporting. It utilizes a sophisticated algorithm to calculate various liquidity metrics based on real-time financial data. The application also 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.

## Backend Developer @ Tricentis (Austria) : 12/17 - 05/18

### Technical Environment

**Languages:** C#, TypeScript, SQL

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

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

### Project Description

**Business:** Tricentis Tosca empowers businesses to achieve faster, higher quality software releases at a lower cost. Its codeless approach and AI-powered risk-based testing streamline the testing process, increasing efficiency and reducing time-to-market.

**Technical:** Tricentis Tosca's model-based test automation and broad technology support enable the creation of reusable and scalable test cases. This

### 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.

significantly reduces maintenance efforts and allows for efficient testing of diverse applications, from GUI to mobile.

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