Andor Sípos

Founder, Technical Lead & Software Architect

.NET modernisation, system integration and custom business software | AI-assisted software development

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Summary

Founder, technical lead and software architect of operandor, with 13+ years of experience developing business .NET systems. He helps business leaders, operations teams and technical leaders whose work is slowed by disconnected systems, repetitive data entry or applications that are difficult to extend. He develops custom business software, modernises existing .NET systems and integrates applications, primarily using .NET/C#, Azure and web technologies. As a hands-on developer and architect, he works with developers he has collaborated with on previous projects. He distinguishes AI automation built for clients' business processes from the AI tools used in his own development workflow; the development team remains responsible for technical decisions, code review and quality assurance.

- Modernisation without stopping production: Reshapes large, tightly coupled .NET systems step by step into modular monoliths with Clean Architecture while they stay in production, most recently a .NET Framework, WCF and stored-procedure platform used by lenders and law firms.
- Technical leadership of small remote teams: Designs the structure of the solution, coordinates developers, runs design and code reviews, mentors and onboards engineers, and acts as the primary technical contact for client stakeholders, most recently in a team that grew from 3 to 7–8 people.
- Clean Architecture and modular design: Starts new systems from a clean, modular design with clear module boundaries, and builds modules that other products can reuse, such as an access-control module adopted by three further products.
- AI-assisted software development: Uses GitHub Copilot, Claude, Codex, ChatGPT and Cursor to support implementation, testing and documentation. Built an MCP server that supplies coding agents with codebase and project context. The development team remains responsible for technical decisions, code review and quality assurance.
- Full-stack .NET and TypeScript/React delivery: Delivers end to end with C#, ASP.NET Core, Entity Framework and SQL Server or PostgreSQL on the back end, TypeScript, React and MUI on the front end, and CI/CD through Azure DevOps or GitHub Actions to Azure, AWS and Kubernetes.
- Root-cause debugging in long-lived codebases: Investigates complex defects and escalated production issues in large, long-lived codebases, traces them back to their root cause, and pragmatically removes the technical debt and single points of failure behind them.

Skills

The level shows how deeply Andor has worked with each technology in the documented positions and projects.

.NET platform: Expert: .NET, C#, ASP.NET Core; Advanced: Entity Framework, LINQ, WCF (last used 2026), ASP.NET MVC (last used 2026); Independent: WPF (last used 2025), Razor Pages (last used 2026), Blazor, Windows Forms (last used 2024); Working knowledge: .NET MAUI (last used 2026)

Databases & data access: Advanced: SQL Server, T-SQL (last used 2026), PostgreSQL (last used 2024); Independent: Azure SQL (last used 2026), Dapper (last used 2026)

Architecture & practices: Expert: Clean Architecture, Modular monolith, REST APIs (last used 2026), Vertical Slice Architecture (last used 2026); Advanced: CQRS (last used 2026); Working knowledge: Microservices (last used 2021)

Leadership: Expert: Technical leadership, Code review; Advanced: Mentoring (last used 2026)

Cloud & platforms: Expert: nopCommerce (last used 2022); Advanced: Azure; Independent: Azure Functions, Azure App Service (last used 2026), Azure Static Web Apps, Azure Key Vault (last used 2026), AWS (last used 2024); Working knowledge: SharePoint (last used 2015), Azure Data Factory (last used 2026); Familiar: Azure Service Bus (last used 2025)

DevOps, CI/CD & testing: Expert: xUnit; Advanced: Azure DevOps, GitHub Actions, Git, Docker (last used 2026), Playwright (last used 2026), Selenium (last used 2021); Independent: NUnit (last used 2021); Working knowledge: Kubernetes (last used 2024)

AI-assisted development: Expert: Claude; Advanced: GitHub Copilot, Codex; Independent: ChatGPT; Working knowledge: Cursor

AI integration and automation: Independent: Azure OpenAI (last used 2025), MCP (last used 2026)

Front end & UI libraries: Advanced: HTML, CSS, DevExpress (last used 2024); Independent: JavaScript, jQuery (last used 2021), React (last used 2024), TypeScript (last used 2024), MUI (last used 2024), Telerik UI (last used 2019); Working knowledge: Kendo UI (last used 2017)

Other languages & runtimes: Working knowledge: Node.js (last used 2021), Python (last used 2024)

Work Experience

Founder, Technical Lead & Software Architect

operandor (sole proprietorship) | Remote | 08/2021 – present

Helps reduce manual work through custom business software development, modernisation of existing .NET applications and system integration. Services also include taking over existing systems and providing senior developer capacity, and he takes on technical leadership within these engagements. He also builds AI-assisted automation for clients, for example to extract data from documents, organise enquiries and search internal information, with defined human review and approval steps. AI tools used during development support his own workflow; the resulting application does not need to include AI features. His own product, rovatix, supports document processing.

- Designs solution architectures, coordinates developers and takes part in implementation, code review and testing.
- Works remotely with clients' existing teams, agreeing tasks, availability and responsibilities before the work starts, and brings in experienced developers he has worked with before for larger pieces of work.
- Leads the development of rovatix, which reads data from PDFs, scanned documents and photos and, after a human check, passes it on in an agreed format; it is offered as a demo and an agreed pilot.
- Built operandor.io, a four-language website, with a Blazor WebAssembly front end on the operandor design system he designed, with light and dark themes and a responsive layout, and an Azure Functions API following Clean Architecture, tested with xUnit and deployed to Azure Static Web Apps through GitHub Actions.
- Worked on an experimental .NET MAUI project within operandor.

Technologies: C#, .NET, ASP.NET Core, Entity Framework, LINQ, SQL Server, Azure, Azure Functions, Azure Static Web Apps, Azure DevOps, GitHub Actions, Git, Blazor, CSS, xUnit, Clean Architecture, Modular monolith, GitHub Copilot, Claude, Cursor, JavaScript, HTML, ChatGPT, Codex

Client projects

Modernisation of a mortgage and property transaction platform – Lightbloom

Lead software engineer & architect | 08/2025 – 05/2026

A business-critical platform supporting mortgage and property transactions for lenders and law firms. The multi-module enterprise system, built on .NET 10 and Clean Architecture, spanned at least six interconnected repositories and products. Worked on defining the architecture and technical direction and implementing gradual modernisation.

- Reshaped a tightly coupled .NET Framework system, built on WCF and stored procedures, step by step into modular monoliths on .NET 10 with Clean Architecture, CQRS and vertical slices, replacing the legacy WCF services with REST endpoints using the Strangler Fig pattern while the system stayed in production throughout.
- Delivered a reusable access-control module, later adopted by three of the client's other products, and a reporting module fed by Azure Data Factory; the two modules were then used to build a new product.

- Delivered an Azure Functions service that used Azure OpenAI to extract structured data from uploaded documents as JSON and persist it directly in the production database.
- Built an internal MCP server that lets AI coding agents retrieve relevant codebase and project context from work item descriptions, using lexical, domain-specific retrieval tuned to the project's terminology.
- Worked on integrating the Platform directory module across the platform and created reference implementations to guide consistent architecture.
- Introduced a testing framework built on xUnit and Playwright, covering the full testing pyramid, with unit, integration and end-to-end tests accompanying both the modernisation and new features.
- Drove the .NET upgrades, the CI/CD pipelines, the functional test infrastructure and comprehensive documentation.
- Reviewed all of the team's pull requests, owned design reviews, ran in-depth repository audits and defined technical standards across the platform.
- Mentored engineers and onboarded new joiners onto the large legacy codebase as the team grew from 3 to 7–8 people.
- Handled escalated production issues on the business-critical system, from investigation through root cause analysis to remediation.
- Introduced Claude Code across the team and built AI-assisted development workflows using Claude Code, GitHub Copilot and custom automation to support development across multiple repositories.
- Designed the Entity Framework data layer during the modernisation.

Technologies: C#, .NET, ASP.NET Core, Razor Pages, WCF, SQL Server, T-SQL, Azure, Azure App Service, Azure Key Vault, Azure Functions, Azure OpenAI, Azure Data Factory, Azure DevOps, MCP, Clean Architecture, Modular monolith, CQRS, Vertical Slice Architecture, GitHub Copilot, Claude, Cursor, Mediator, MediatR, Carter, FastEndpoints, SOLID Design Principles, Dapper, Playwright, Entity Framework, ASP.NET MVC, Azure SQL, REST APIs, xUnit, Docker, JavaScript, HTML

Insurance agency management SaaS – Supercharge
Lead software engineer | 10/2024 – 05/2025

Developed a SaaS product supporting insurance agency operations, including lead and sales opportunity management, communication with insurance carriers and accounting workflows.

- Built a feasibility demo of the product for a prospective enterprise client.

Technologies: C#, .NET, WPF, SQL Server, Azure, Clean Architecture, Modular monolith, SOLID Design Principles, Entity Framework

Test reports for an accredited laboratory – Regatta Project Kft.
Software engineer | 02/2024 – 05/2024

A .NET application that helped an accredited materials testing laboratory prepare its test records and reports.

- Worked as the sole developer on the project.
- Developed the test record features in .NET on a SQL Server database and built the printable test reports with DevExpress Reporting.
- Supported the laboratory in meeting its accreditation requirements with the finished application.

Technologies: .NET, DevExpress, DevExpress Reporting, SQL Server, Windows Forms

Supplier reporting platform – AGCO Corporation
Lead software engineer | 11/2022 – 09/2024

Developed a supply-chain business intelligence system with dashboards displaying key performance indicators. The platform brought together supplier forecast confirmations and their impact on production. Led the software engineering team from initial design through deployment and worked on integrating the application's backend, frontend and data components.

- Owned technical delivery across back end, front end and deployment as lead software engineer of a distributed team of 3–4 people.
- Built and maintained the TypeScript/React/MUI front end consuming the BI dashboard's APIs, where leaders filtered figures by business unit, region and supplier and compared successive forecasts part by part.

- Worked on an ASP.NET Core monolith following Clean Architecture and designed the PostgreSQL star schema behind the reports, loaded with supplier data by AWS Lambda functions he wrote in Python.
- Owned CI/CD across Azure DevOps and GitHub Actions, with containerised deployment on Docker and Kubernetes.
- Provided technical guidance and code review for the engineering team across several time zones.
- Solved complex issues in the PostgreSQL database and fixed performance problems in the Entity Framework layer.

Technologies: C#, .NET, ASP.NET Core, REST APIs, PostgreSQL, TypeScript, React, MUI, AWS, AWS Lambda, Docker, Kubernetes, GitHub Actions, Azure DevOps, Clean Architecture, SOLID Design Principles, Entity Framework, Python

Plugin-based eCommerce solution on nopCommerce

Architect and lead developer | 01/2022 – 11/2022

Designed and developed custom plugins for a nopCommerce-based eCommerce solution, extending its functionality to meet business requirements without modifying the core application's source code.

- Extended a large third-party .NET codebase through nopCommerce's plugin architecture, without forking it or changing the core application's source code.
- Defined the solution's plugin architecture, carried the nopCommerce version upgrade through together with the plugins, solved issues in the platform's internals and led the development of several nopCommerce-based solutions.

Technologies: C#, .NET, ASP.NET, SQL Server, HTML, JavaScript, nopCommerce, Entity Framework

Automated UI test suite

UI test automation developer | 11/2021 – 12/2021

Developed automated UI tests for a German gambling company's website to verify user-facing functionality and help detect regressions.

- Designed the structure of the automated UI test suite and used it to check the website's user-facing functionality and behaviour after changes.

Technologies: .NET, C#, xUnit, NUnit, Selenium

Service management system

Lead developer responsible for the whole system | 09/2021 – 11/2021

Developed a service management system supporting the business workflow from initial quotations through service delivery and after-sales administration, tailored to the client's operational processes.

- Fitted the application to how the client operated, supporting the process from the quote to the paperwork after the service work.

Technologies: JavaScript, Node.js, Knockout, jQuery, SQL Server, C#, .NET, Azure, Apache Cordova

Software Engineer

ALLWIN Informatika Kft. | Budapest | 03/2015 – 08/2021

Developed business applications, ship navigation software and image annotation tools for enterprise, public-sector and research and development projects.

- Worked on the Intelligent Image Object Annotator R&D project, ship navigation software, a public-sector business application, and an enterprise performance and permission management system. The associated project entries detail the tasks and technologies for each project.

Technologies: C#, .NET, ASP.NET MVC, Entity Framework, WPF, SQL Server, JavaScript, jQuery, Azure, Microservices

Client projects

Government business application

Multi-layer business application for the public sector.

Technologies: C#, .NET, Entity Framework, WPF, ASP.NET, HTML, JavaScript, jQuery, SQL Server, Razor Pages

Ship navigation and vessel tracking software

Ship navigation and vessel tracking software for an international client.

Technologies: C#, .NET, Entity Framework, WPF, ASP.NET, SQL Server, Telerik UI, ArcGIS

Intelligent Image Object Annotator

R&D project from a winning tender: a tool for annotating objects in images.

Technologies: C#, .NET, Python, Jupyter, CNTK, Azure, Docker, Kubernetes

Performance and permission management system

Performance and permission management system for a large enterprise.

Technologies: C#, .NET, ASP.NET, JavaScript, jQuery, SQL Server, SharePoint

Junior .NET Developer

Grape Solutions Kft. | Budapest | 07/2014 – 02/2015

- Developed a hospital BI system and an associated portal for data visualisation and system administration in line with Hungarian requirements; built MOLAP cubes and defined key performance indicators (KPIs).
- Developed an internal portal for an international pharmaceutical company to manage active substances.
- Developed a website for an international hunting association to record hunting data.

Technologies: C#, .NET, ASP.NET MVC, SQL Server, Entity Framework, Kendo UI, Excel Power Pivot

.NET Developer

Regatta Project Kft. | 04/2013 – 07/2014

Developed multi-layer business applications using .NET, DevExpress user interface components and a SQL Server database.

- Developed multi-layered manufacturing tracking software for a ceramics manufacturer.
- Developed bespoke multi-layered ERP and stock management software for an international quality assurance company.

Technologies: C#, .NET, Windows Forms, DevExpress, SQL Server, Entity Framework

Education

BSc (Applied), Electrical and Computer Engineering

Subotica Tech – College of Applied Sciences | 2008 – 2011

Grade: 8.11/10 · Courses: Databases, Web development, .NET

Summer school, Advanced C# and XNA game development

ELTE Summer University / Microsoft Summer School | 2011

Summer school, Web development: Silverlight, ASP.NET, SQL Server

Microsoft Summer School | 2010

Secondary education, Horticultural technician

Beszédes József MMIK, Kanjiža (Serbia) | 2003 – 2007

Certifications

- Programming in C# (exam 70-483) — Microsoft
- DAT236x: Deep Learning Explained — edX, 2017

Awards

- 2nd place, CEE IoT Hackathon Hungary — CEE IoT Hackathon Hungary, 2016. As a member of Team ALLWIN.
- National finals, Imagine Cup 2012 — Microsoft, 2012. Plant recognition system.
- Creativity award and Nuance-Recognita Zrt. special prize — Óbuda University, 37th Scientific Students' Conference (TDK), 2012

Publications

- Microsoft Windows 7 Pontról pontra — Perfact, 08/2011. Created illustrations for the book.

Volunteer Experience

Flood Defence Volunteer
06/2013
Participated as a volunteer in flood defence efforts in Budapest during the 2013 Danube flood.

Languages

- Hungarian — Native
- English — Fluent, professional working proficiency
- Serbian — Limited working proficiency
- Croatian — Limited working proficiency