

Przemysław Bogusław Bańkowski

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Date of Birth: February 7, 1997

Location: Łomazy, Poland (Open to Remote / Warsaw)



Professional Summary

Backend .NET Developer with several years of experience building enterprise business systems and high-availability tech platforms. Specializing in backend architecture, business logic implementation, API integrations, and process automation. Proven track record of delivering production systems serving hundreds to thousands of users, including Web3 and AI solutions. I have proven experience acting as a Backend Team Lead. In my daily practice, I combine Spec-Driven Development methodologies with modern AI tools to optimize the entire Software Development Life Cycle (SDLC) - from planning and architecture to automated testing and documentation.

Professional Experience

Blunovation – Backend .NET Developer (B2B)

07/2025 – Present | Remote

- Develop and maintain robust enterprise backend systems using .NET, C#, and ASP.NET Core (Data, Business Logic, and UI layers)
- Engineer commercial solutions in CMS architecture, and AI-driven content generation platforms
- Design RESTful API integrations, WebSockets, and automate business processes with Swagger/OpenAPI documentation
- Apply Spec-Driven Development and AI engineering tools to optimize daily workflows
- Work in an Agile/Scrum environment using Azure DevOps, daily standups, and sprint planning
- Optimized EF Core and MS SQL performance by applying query splitting (AsSplitQuery) and AsNoTracking for read-only GET endpoints. Resolved data race issues in seat/registration bookings by implementing optimistic concurrency control (RowVersion) and pessimistic locking (UPDLOCK, HOLDLOCK).

Career Break – Professional Development

07/2024 – 06/2025

- Expanded .NET backend engineering capabilities through intensive self-directed project development
- Architected and delivered hands-on Web3, AI, and trading automation systems from concept to execution
- Resolved real-time WebSocket communication synchronization, event ordering, and message duplication challenges in trading automation systems by designing custom status state machines and semaphores.

Blunovation – Backend .NET Developer / Backend Team Leader

02/2021 – 07/2024 | Remote

- Architected and engineered multi-layer .NET backend solutions for enterprise systems, ERP systems, and scalable web platforms (Finance, HR, and Asset Management domains)
- Implemented core business logic, third-party API integrations, and workflow automation processes (ERP, PPM, CMMS, WMS)
- Maintained high-availability production systems serving hundreds to thousands of active users, ensuring system stability
- Spearheaded backend operations as Team Lead (managing 5 developers), orchestrating cross-functional collaboration across Frontend, PM, DevOps, client, and vendor teams
- Owned backend architecture design, conducted Code Reviews, mentored developers and set coding standards

Early Career Experience

IT Internships & Support (06/2014 – 09/2020) – Professional internships including Warehouse Management System (WMS) development at Blunovation, computer servicing at RAM-SERWIS, and municipal IT administration support.

Key Projects

Digital Asset Web3 Trading Platform (Domain: Finance / Asset Management): Commercial project for an external client. Built a multi-layer .NET backend handling real-time communications, business logic, and integrations. Acted as Backend Team Lead, orchestrating cross-team collaboration with Smart Contract engineers, PMs, DevOps, and external stakeholders.

AI Music Generation Platform: Backend infrastructure for an AI-driven music generation system utilizing external generative AI APIs. Designed asynchronous task processing, event-driven workflows, and process automation.

Web3 Token Creation & Management Platform: End-to-end personal project. Engineered a .NET backend managing custom business logic, blockchain interactions, and automated token lifecycle management.

Multilingual CMS System: Comprehensive Content Management System. Architected system design, content handling pipelines, and external integrations using .NET, C#, and Angular.

Inventory Process Automation System (Domain: Asset Management): Production system used by clients to automate inventory workflows and asset tracking. Designed backend processing pipelines, database integration points (Entity Framework Core, SQL Server), and automated reporting engines.

Time & Project Management System (Domain: HR): Enterprise system for registering work hours, managing employees and leaves, and tracking project costs. Developed the central backend logic and UI components (Angular, C#), enabling comprehensive reporting and cost control.

ERP System for Business Processes (Domain: Finance, HR, Asset Management): Comprehensive enterprise resource planning system integrating financial workflows, HR, and logistics. Focused on database optimization, data centralization, and workflow automation.

Stock Exchange Transaction Automation System (Domain: Finance): Backend monitoring and automation system integrating trading APIs and Discord. Handled high-frequency data streams, event logging, and transaction orchestration in real-time.

Warehouse Management System (Domain: Asset Management / Logistics): System supporting goods receipt, storage, picking, and shipping. Designed backend inventory tracking logic and logistics process optimization.

Detailed descriptions of additional projects available at: przemyslawbankowski.pl

Technical Skills

Backend: .NET, C#, ASP.NET Core, Entity Framework Core, REST API, WebSockets, Microservices / Clean Architecture

Databases & SQL: SQL Server, PostgreSQL

Web3 & AI: Blockchain, Smart Contracts integrations, OpenAI / Claude / Gemini API integration

Frontend & UI: Angular, React, Next.js, Razor Pages / MVC, TypeScript

System Design & Methodologies: UML (Class, Sequence, Use Case diagrams - academic & project experience), Software Architecture Design, Scrum / Agile (Trello, Azure DevOps)

Languages

English: B2/C2 (Reading & Listening: C2 – EF SET Certificate | Speaking & Writing: B2)

Education & Certifications

10/2017 – 02/2021 **Siedlce University of Natural Sciences and Humanities**
Major: Computer Science
Degree: Bachelor of Engineering | Graduation Date: 02/2021 (EQF Level 6)

09/2013 – 05/2017 **Vocational School Complex No. 1 in Biała Podlaska**
Diploma: IT Technician
Degree: Secondary Technical Education | Graduation Date: 05/2017

- 10xDevs (08/2026) – Advanced AI-assisted software engineering workflows (Spec-Driven Development, automated testing, and documentation pipelines).
- EF SET English Certificate (Reading & Listening) (08/2026) – C2 Proficient Level (Certified by EF Standard English Test, B2+ Speaking & Writing Proficiency).
- OSINT and OPSEC Basics: 10 Mistakes You SHOULD NOT Make (08/2026) – Information security and risk management certificate (Certified by Security Academy).
- Google Skills of Tomorrow: AI (06/2026) – Practical application of AI models and workflow automation (Certified by Google).
- Polish AWSome Week (03/2021) – Cloud infrastructure basics (Certified by Amazon Web Services).
- React & AngularJS Programming Certificate (12/2020) – Frontend development training.
- Team Building, Communication & Conflict Resolution Training (11/2020).
- Communication, Self-presentation & Assertiveness Training (11/2020).
- Quality Management and Risk Management Professional Certificates (05/2020).