# Illia Kotvitskyi

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Backend .NET Software Engineer with 3 years of experience in C#/.NET, specializing in high-load, event-driven distributed systems. Experienced across the full SDLC: gathering requirements, design, development, testing support, delivery and CI/CD, with a focus on resolving critical performance bottlenecks, incident root-cause analysis, observability and production reliability. Domain experience: FinTech (capital markets trading), web and desktop business applications. Proven track record of improving the stability and performance of high-load services and delivering reliable, low-latency APIs in complex enterprise environments.

## SKILLS

- **Backend:** C#, .NET 8/10, ASP.NET Core, .NET Framework, EF Core, Dapper, REST APIs, LINQ
- **Architecture:** Microservices, Clean Architecture, DDD, CQRS, Event-Driven Architecture, Modular Monolith
- **Data and Messaging:** SQL Server (T-SQL, Stored Procedures), PostgreSQL, MongoDB, Redis, RabbitMQ, MassTransit
- **Testing:** xUnit, Moq, NSubstitute, TestContainers, Unit Testing, Integration Testing
- **Infrastructure & Cloud:** Docker, Terraform, Jenkins (CI/CD), IIS, Git, Puppet, AWS, Azure (AZ-900 Certified)
- **Observability:** Datadog, ELK Stack, Splunk, OpenTelemetry
- **Practices:** Scrum, code review, incident management, root cause analysis, performance tuning, AI-assisted development
- **Tools:** Claude Code, GitHub Copilot, Cursor, Rider, Visual Studio, VS Code, Postman
- **Languages:** English (C1), Ukrainian (native), Russian (bilingual)

## PROFESSIONAL EXPERIENCE

### Software Engineer
### EPAM Systems | FinTech, Backend — Dec 2024 – Present

Backend engineering in a Scrum team on internal services of a high-load capital markets trading platform (London Stock Exchange Group account), focused on system administration, stability, and event-driven communication. Own three backend services end-to-end, from feature delivery and code review to incident triage and client demo reporting.

- Restored stable sub-second API responses in a production authentication service by profiling and tuning its .NET Framework thread pool configuration under load, eliminating a recurring market-open outage that previously failed ~18M requests per week.
- Protected a $200K annual client contract within 48 hours during a 3-month Stability team rotation (12+ production incidents): reconstructed the transaction timeline of a critical SAP integration failure from audit logs and proved a system fault, not client error.
- Eliminated routine manual system re-runs by designing and implementing an event-driven auto-retry dead-letter path using RabbitMQ, establishing a pattern subsequently adopted by 2 platform teams.
- Cut early-triage time by ~15 minutes per incident for 5 engineers by initiating and building an AI-assisted CLI tool (Triage Companion) that converts Datadog alerts and logs into structured RCA drafts.
- Mentored and onboarded junior engineers; partnered with product owners to ship production-ready features.

### Trainee, EPAM Lab
### EPAM Systems | Web/Desktop Applications — Jul 2022 – Aug 2023

- Completed EPAM's .NET training program: C#, ASP.NET Core, EF Core, SQL Server, REST APIs, unit testing, Git.
- Troubleshot, upgraded, and delivered application improvements across ASP.NET, WPF, Node.js and Python Django codebases. Managed the end-to-end development lifecycle for applications alongside full-time university studies, ensuring strict adherence to requirements and code quality.

## PROJECTS

- **Lanka (Platform):** Social-media campaign platform. BSc diploma project. .NET 10 modular monolith with Clean Architecture, DDD, CQRS, MassTransit, sagas, EF Core + Dapper, RabbitMQ, PostgreSQL, Redis, MongoDB, ElasticSearch, .NET Aspire and OpenTelemetry.

## EDUCATION & CERTIFICATIONS

- **BSc Computer Software Engineering | Zhytomyr Polytechnic State University (Including Erasmus+ at University of Maribor) | 2022 – 2026**
- **Claude Code in Action | Anthropic – Feb 2026**
- **Microsoft Certified: Azure Fundamentals (AZ-900) | Microsoft – Oct 2023**