Viktor Ralchenko

Senior .NET Developer

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PROFESSIONAL SUMMARY

Senior .NET Developer with 20+ years of experience designing, building, and maintaining **scalable enterprise applications** and **cloud-based systems**. Deep expertise in **C#**, **.NET Core 6–8**, **ASP.NET Core**, **Microsoft SQL Server**, and **RESTful API development**. Proven track record delivering **microservices architectures** and **distributed systems** on **Azure** and **AWS**. Strong focus on **clean architecture**, **automated testing** (1000+ tests authored), **CI/CD pipelines**, and **Agile/Scrum** practices. Additionally skilled in modern frontend frameworks (**React**, **Angular**, **TypeScript**) and mobile development (**Kotlin**, **Jetpack Compose**). Experienced in collaborating across **cross-functional teams** to deliver high-quality software on time.

TECHNICAL SKILLS

Languages: C#, JavaScript, TypeScript, Python, Kotlin, SQL

Frameworks & Runtime: .NET Core 6–8, ASP.NET Core Web API, Node.js, Express, React.js, Angular, Vue.js, Jetpack Compose

Architecture & APIs: Microservices, Clean Architecture, RESTful APIs, DDD, SOLID, OOP Design Patterns, API-First Design

Cloud & DevOps: Microsoft Azure, AWS, Docker, Kubernetes, CI/CD Pipelines, Azure DevOps, GitHub Actions, Cloudflare

Databases: SQL Server, PostgreSQL, Oracle, SQLite, Entity Framework Core, LINQ, ADO.NET, Room

Testing & Quality: Playwright, xUnit, NUnit, MSTest, Moq, FluentAssertions, TDD, Code Reviews

Data & Integration: XML/JSON Processing, Cheerio, Puppeteer, REST APIs, Serverless Functions, Groq API

Tools & Collaboration: Git, Jira, Confluence, Rider, Visual Studio, VS Code, Agile/Scrum, AI Coding Assistants

PROFESSIONAL EXPERIENCE

Senior Quality Assurance Automation Engineer
Feb 2025 – Present

Self-employed, Part-time

- Architected a scalable **test automation framework** using **Node.js**, **TypeScript**, and **Playwright** — achieving 90%+ code coverage and reducing regression time by 60%.
- Authored and maintained **1000+ automated tests** (unit and integration) across a complex **microservices architecture**.
- Built custom **data validation utilities** for automated quality gates within **CI/CD pipelines**.
- Managed test planning, execution, and reporting in **Qase**, improving transparency and traceability.
- Collaborated closely with development and operations teams via **Jira** and **Slack** in a **distributed, Agile** environment.

Tech Stack: Node.js, Playwright, TypeScript, Qase, Jira, Slack, Rider

Senior Software Engineer
Oct 2023 – Feb 2025

Bystronic Group (Industrial Machinery, Switzerland)

- Designed and developed **backend services** and **RESTful APIs** using **C#** and **.NET 6–8** for an industrial **SaaS data platform**.
- Built integrations with **industrial hardware**, improving data flow and operational efficiency across **distributed systems**.
- Implemented **CI/CD pipelines** in **Azure DevOps** with **Docker** containers, automating deployments and releases.
- Used **Python** for **data processing** and scripting alongside the primary .NET stack.
- Improved system stability by resolving production incidents and **API performance optimization**.
- Applied **unit testing** (**xUnit**, **Moq**, **FluentAssertions**) to ensure high code quality and prevent regressions.
- Participated in **technical design reviews**, **code reviews**, and **retrospectives** within **Scrum** teams.

Tech Stack: .NET 6–8, C#, Azure, Azure DevOps, Docker, SQL Server, Python, Vue.js, Node.js

Senior Fullstack Software Engineer
Apr 2021 – Jul 2023

UUUSoftware

- Developed and maintained **enterprise applications** using **C#**, **.NET Core**, **REST APIs**, and **AWS**.
- Contributed to **microservices architecture** and **service-oriented system integrations**.
- Improved backend **performance and reliability** through profiling, **query optimization**, and code reviews.
- Drove **code quality standards** through **unit testing** and adoption of **SOLID principles**.
- Supported **CI/CD** processes using **Jenkins**, automating build and deployment workflows.

Tech Stack: C#, .NET Core, AWS, Oracle, Angular, Jenkins

Software Engineer
Jan 2018 – Mar 2021

Axxos

- Built **backend components** in **ASP.NET Core**, implementing complex filtering, sorting, and paging for **data-intensive applications**.
- Created Windows services for **XML data processing** with custom validation logic.
- Modernized **legacy .NET Framework / VB.NET** applications to current patterns.
- Optimized **SQL Server** performance through advanced **T-SQL** query tuning and indexing.
- Delivered frontend features using **React.js** integrated with backend **RESTful APIs**.

Tech Stack: ASP.NET Core, C#, VB.NET, SQL Server, T-SQL, React.js

Web Software Engineer
Apr 2016 – Apr 2020

Vocabnetwork (Part-time)

- Implemented new features for a large **web platform** using **ASP.NET** and **React**.
- Diagnosed and resolved production issues to maintain application stability.
- Managed deployments and release cycles.

Tech Stack: ASP.NET MVC, Web Services, SQL Server, React.js

Web Software Engineer Aug 2013 – Dec 2017

Svitla Systems

- Implemented new features for a large **web platform** using **ASP.NET** and **React**.
- Diagnosed and resolved production issues to maintain application stability.
- Managed deployments and release cycles.

Tech Stack: ASP.NET MVC, Web Services, SQL Server, React.js

Senior C# and SQL Developer Feb 2010 – Jul 2013

Volia Software

- Developed new features for **enterprise web applications** using **ASP.NET** and **SQL Server**.
- Designed **stored procedures**, complex queries, and **relational database schemas**.
- Resolved production issues and improved system stability.

Tech Stack: ASP.NET MVC, SQL Server, Stored Procedures, T-SQL, HTML/CSS

Junior/Middle .NET Developer May 2006 – Jan 2010

Infopulse

- Developed features for **ASP.NET MVC** applications, working across views, controllers, and models.
- Created **web services** to fetch and process data from **SQL databases**.
- Supported a large-scale financial portal, implementing new features and resolving bugs.
- Wrote **NUnit** tests to ensure backend functionality and maintain code quality.

Tech Stack: ASP.NET MVC, Web Services, NUnit, WPF, C#

1C Programmer / System Administrator Feb 2002 – May 2006

ATL

- Developed business logic, creating modules, reports, and **automation scripts**.
- Administered infrastructure and performed **database** maintenance and troubleshooting.

Tech Stack: 1C, Windows Server, SQL, System Administration

PROJECTS & ACHIEVEMENTS

AI Mobile Assistant — Mar 2026

- Android AI chat assistant with text conversations, image analysis, and multilingual voice input powered by **Groq API**.

Tech Stack: Kotlin, Jetpack Compose, Material 3, Groq API, Retrofit

Deutsch Lernen — Mar 2026

- Android app for German learning with spaced repetition (FSRS v5), 500+ vocabulary items, grammar rules, and AI tutoring.

Tech Stack: Kotlin, Jetpack Compose, Room, Hilt, Groq API, FSRS v5

SwissJobHunter — Feb 2026

- Multi-source job aggregator with **Serverless Functions**, concurrent scraping pipelines, and AI-powered relevance scoring.

Tech Stack: React, TypeScript, Vite, Cheerio, REST APIs

Interview Quizzes — Feb 2026

- Collection of **500 self-assessment questions** for technical interview preparation across C#, .NET, design patterns, and more.

Tech Stack: JavaScript, HTML, CSS, GitHub Pages, i18n

Foreteller AI — Jan 2026

- Full-stack web app with AI-powered data analysis via **Groq API**, combining zodiac, numerology, and character profiling.

Tech Stack: TypeScript, React, Vite, Node.js, Express, Supabase, Groq API

AI Career Coach — Dec 2025

- AI-powered resume analysis tool — parses PDFs, compares with job descriptions, and generates scored match reports.

Tech Stack: TypeScript, Next.js, React, Tailwind CSS, Supabase, Puppeteer, Groq API

Item Flow — Oct 2025

- Full-stack app with **REST APIs**, cloud storage integration, and automated **CI/CD pipelines** via **GitHub Actions**.

Tech Stack: Node.js, React.js, Playwright, TypeScript, Cloudinary, GitHub Actions

NASA Space Apps Challenge — Oct 2025

- Collaborated in an international team during a 48-hour hackathon on a NASA-presented challenge blending technology and space data.

EDUCATION

Master's in Computer Systems & Networks (Diploma with Honor) — National State Polytechnic University, 1996–2002

LANGUAGES

English — Advanced / C1

Ukrainian — Native

German — B1 (Working)

Russian — Fluent

HOBBIES

Table tennis, Mini-golf, Hiking