

# Vitalii Prokopchuk

Senior Software Engineer | Distributed Systems | .NET & Azure

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## SUMMARY

Senior Engineer with 14+ years designing and scaling distributed systems. Strong in .NET and Azure, but pragmatic about technology choices — I select tools based on the problem and have shipped solutions with Node.js, React, ML.NET, and iOS when appropriate.

Currently building backend infrastructure for Chevron's fuel retail platform (8M+ users, ~100 req/s, 2M+ payment transactions/month). Previously co-founded and served as CTO of a parking platform now operating across 1,000+ facilities in Europe.

## EXPERIENCE

### PAR Technology — Senior Software Engineer

*May 2021 — Present | Krakow, Poland (Remote) | Client: Chevron*

Backend infrastructure for Chevron's fuel retail mobile applications (iOS/Android) and rewards website serving 8M+ users, handling ~100 requests/second, processing 2M+ payment transactions/month.

- Built a configurable graph-based loyalty rules engine for transaction processing — config-driven, ordering-aware, and used as rollout infrastructure for product features across Chevron's network
- Developed migration tooling supporting dual loyalty providers during Chevron's OpenCommerce transition, enabling phased rollout without per-phase engineering effort
- Introduced .NET Aspire for local development orchestration, replacing manual multi-service startup with single-command workflow, saving each developer ~1 hour/day

**Technologies:** C#, .NET, ASP.NET Core, GraphQL, REST APIs, Azure Functions, Azure Service Bus, Redis, Azure Blob Storage, SQL Server, Docker, .NET Aspire

**Team:** Backend: 6 | Full product team: ~29

### Strategic Vision — Senior Software Engineer

*May 2017 — May 2021 | San Diego, USA (Remote)*

Full-stack engineer on ML-powered automotive market research platforms serving Fortune 100 automotive brands. Processed survey data from NVES (~250K respondents/year, ~450 data points each, 2.2M+ responses over the last decade).

- Built NLP pipelines for processing survey verbatims (speech-to-text and sentiment analysis) using ML.NET and IBM Watson
- Integrated Qualtrics REST APIs for survey delivery, ingestion, and data pipelines
- Developed real-time survey visualization platform (Strategic Window) delivering insights seconds after respondent submission

- Built automated reporting system (One Button Solution) with verbatim analysis, demographic/psychographic cuts, and analyst-ready outputs
- Developed vehicle recommendation engine based on structured buyer preferences

**Technologies:** C#, .NET Framework, .NET Core, ASP.NET MVC, ASP.NET Core Web API, React, Redux, ML.NET, IBM Watson, Qualtrics APIs, SQL Server, MySQL, Entity Framework

**Team:** 2–4 engineers

## LetMePark — Co-founder & CTO

*Jul 2017 — Oct 2019 | Madrid, Spain (Remote)*

Co-founded a parking aggregation platform. As sole technical founder, designed and shipped the full system from zero to production across 1,000+ parking facilities in Europe.

- Built the complete technical platform — backend APIs, mobile app integrations, and cloud infrastructure
- Integrated license plate recognition providers for automated parking access
- Designed system architecture supporting partner integrations and connected vehicle platforms

**Technologies:** .NET, Node.js, iOS (native), Azure, SQL Server

**Team:** 3–6

## Materialise — Software Engineer

*Nov 2014 — May 2017 | Kyiv, Ukraine*

Worked on i.materialise, a B2B2C 3D printing marketplace platform.

- Led monolith-to-microservices migration from ASP.NET MVC to Web API architecture
- Built browser-based WebGL 3D model viewer for in-browser part visualization
- Developed public APIs for third-party developer integrations

**Technologies:** C#, .NET, ASP.NET MVC, Web API, Angular.js, WCF, Entity Framework, SQL Server, JavaScript

**Team:** 5–8

## SoftServe — Software Engineer

*Feb 2014 — Dec 2014 | Kyiv, Ukraine*

Enterprise Master Data Management software and educational platforms.

**Technologies:** C#, .NET, ASP.NET, WCF, SQL Server, Entity Framework, Knockout.js

## Alpha Quant Partners — Junior Software Engineer

*Sep 2012 — Oct 2013 | Kyiv, Ukraine*

Built WinForms trading tools for NYSE market operations using the RealTick API.

**Technologies:** C#, .NET, WinForms, RealTick API

## SKILLS

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

**Backend:** .NET, ASP.NET Core, Node.js, GraphQL, REST APIs

**Cloud & Infrastructure:** Azure, Azure Functions, Azure Service Bus, Redis, Docker, .NET Aspire

**Frontend:** React, Redux, Angular

**Data:** SQL Server, PostgreSQL, MySQL, MongoDB, Dapper, Entity Framework, Redis

**ML / NLP:** ML.NET, IBM Watson

**AI-Assisted Development:** Cursor, Claude Code, GitHub Copilot, OpenAI Codex, Ollama, LM Studio

## EDUCATION

Master in Computer Science — National Aviation University, Kyiv (2015)

Bachelor in Computer Science — National Aviation University, Kyiv (2013)

## CERTIFICATIONS

Redis for .NET Developers — Redis (Oct 2023)

## LANGUAGES

English: Professional working proficiency

Ukrainian: Native

Russian: Native