ŽIGA PETEK

Solution Architect | Software Architect

ziga.petek2@gmail.com +386 31 415 162 Graz, Austria ziga-petek/ itd24
02.11.1986 Slovenian (EU citizen)



PROFESSIONAL SUMMARY

Software architect with 15 years of hands-on engineering experience designing microservice, event-driven and distributed systems for retail, SaaS and fiscal-compliance platforms.
Redesigned a platform's microservices architecture and automated its releases, cutting deployment effort by 40% at pink robin; designed a centralized licensing system and fiscal integrations for 5 countries at AURIS.
Translates business and regulatory requirements into maintainable system designs, delivered with C#/.NET, Node.js, Docker and Azure.

CORE SKILLS

Architecture & System Design
System Design, Microservices, Distributed Systems, API Architecture, SQL Data Modeling, Design Patterns, Enterprise Integration Patterns, Event-Driven Architecture, DDD, Clean Architecture

Data & Messaging
MSSQL/T-SQL, PostgreSQL, MySQL, Redis, MongoDB, Kafka, Azure Service Bus

Practices
Agile/Scrum, architecture reviews, code review, mentoring

Implementation Stack
C#/.NET (ASP.NET Core), Node.js/TypeScript (NestJS, Express)

Platform & Delivery
Docker, Azure DevOps/Pipelines, GitHub Actions, AWS, Azure, Azure Functions

WORK EXPERIENCE

Senior Software Engineer

AURIS IT Consult GmbH

11/2024 – Present Steyr, Austria (Remote)

- Designed and implemented a centralized licensing system for integration across the company's software ecosystem (C#/.NET, MSSQL).
- Integrated country-specific fiscalisation systems into a retail POS platform, translating national tax and fiscal-reporting regulations into technical requirements across two product companies and two Scrum teams.
- Integrated an asynchronous document-processing pipeline (Azure Service Bus, Azure Functions, T-SQL) with an external e-invoicing provider, including polling for asynchronous results.
- Standardized design decisions through company-wide architecture workshops and RFCs.
- Mentored junior developers through code reviews and technical guidance.

Senior Software Architect / Team Lead

pink robin GmbH

02/2023 – 10/2024 Graz, Austria

- Refactored the architecture of an existing B2B waste-logistics marketplace platform, improving performance and development speed.
- Redesigned the microservices architecture: defined service boundaries, evaluated microservices against a monolith, and documented decisions as ADRs.
- Led architecture reviews and standardized engineering practices with automated static analysis (300 linter rules) and coding standards across the codebase.
- Automated release scheduling and deployment, cutting active preparation and execution time of the bi-weekly release by 40
- Presented architecture proposals to the CTO and enterprise clients; evaluated Google Cloud as a hosting option.
- Led a team of 5 developers, restructured team responsibilities, mentored juniors, and wrote onboarding documentation.

Senior Developer

Pixelpoint Multimedia GmbH

06/2016 – 01/2023 | Klagenfurt, Austria

- Architected a reusable interactive mapping component that became the standard across 100
- Designed and built the first SaaS prototype (Node.js) for enixi, a platform for managing energy communities and shared renewable-energy systems.
- Served as primary technical contact for the German customer base (Brandenburg tourism portal, Bitmovin), translating client requirements into technical solutions.
- Migrated the local development environment from Vagrant to Docker and designed Redis-based URL caching, including Lua scripts.

Development Lead

Agitron d.o.o.

part time, 04/2019 – 04/2020 | Maribor, Slovenia

previously Technical Consultant

Agitron d.o.o.

freelance, 06/2016 – 04/2019 | Maribor, Slovenia

- Redesigned the architecture of an electronic price-tag platform and led development of a working prototype, including backend services and dynamic pricing logic driven by external factors such as weather and local events.
- Designed the microservices and event-driven architecture (Kafka) connecting IoT price tags with the backend.
- Integrated custom hardware with the backend services in collaboration with the hardware manufacturer.
- Led the development team, hired and onboarded every new developer, and presented the platform at industry conferences and in enterprise sales meetings with the CEO.
- As consultant, advised leadership on platform architecture, technology-stack and hiring decisions (C#, Node.js, Docker, MSSQL, MongoDB, Redis), improving scalability and maintainability.

Software Architect / Team Lead

Anolis s.p.

12/2012 – 05/2016 | Maribor, Slovenia

- Designed and implemented backend systems, REST APIs and a Redis caching layer for a web-to-print platform, including custom price calculation.
- Automated the full order-to-print-to-shipping workflow, raising productivity by 50%.
- Architected and prototyped a customer-tracking system for physical retail stores (Android app, BLE beacons, C# backend, embedded firmware) that became the foundation of the spin-off Agitron d.o.o.
- Led a team of 3 developers: selected candidates, onboarded them, and owned technical decisions.

Teaching Assistant

FERI, Laboratory for Computer Graphics and AI

12/2010 – 11/2012 | Maribor, Slovenia

- Redesigned a forest-growth simulation as a distributed system (C++), reducing runtime from weeks to days.
- Led the technical implementation of the laboratory's main research project and its practical courses; mentored students.

LANGUAGES

Slovenian (native)

German (C2)

English (C2)

Croatian (B1)

EDUCATION

MSc Computer Science

Technical University Maribor (FERI)

2005 – 2010 Maribor, Slovenia

Thesis: *Image Classification with Self Organising Kohonen Neural Networks*
Grade: 9/10

ADDITIONAL EXPERIENCE

Freelance Technical Writer at draft.dev (10/2024 – Present) *technical articles on Kafka, AI and software topics for external clients.*

ADDITIONAL TECHNOLOGIES / FAMILIARITY

React, Next.js, Vue.js, Angular, WordPress, Typo3, Contentful, PHP

References available upon request