



ANDREAS VILINSKI

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PROFESSIONAL SUMMARY

Senior Software Engineer and Architect with 20+ years of experience designing and delivering high-performance distributed systems, IoT platforms, and cloud-native microservice architectures. Deep expertise in functional and systems programming – C#, F#, Scala, and Rust – combined with proven proficiency in DevOps practices and observability engineering (OpenTelemetry, Prometheus, Grafana). Experienced in optimizing time-series data workloads at scale using InfluxDB, ClickHouse, and VictoriaMetrics, and building reliable event-driven systems with RabbitMQ, Kafka, and MQTT/EMQX on Kubernetes. Delivered end-to-end observability across 20+ microservices, significantly improving incident response times and developer productivity.

WORK EXPERIENCE

ifm Solutions GmbH

Senior Software Engineer & Solution Architect

Fürth, Germany

Nov 2018 – Present

- **IoT platform to connect, transform and get actionable results**

- Designed and implemented end-to-end observability across 20+ microservices, improving incident response times and developer productivity.
- Identified and resolved critical performance bottlenecks in .NET code, databases, and time-series workloads.
- Guided 3+ development teams on architecture, scalability, reliability, and code quality.
- Evaluated emerging technologies and built PoCs for time-series databases and messaging platforms.
- Technologies - C#/F#/Rust, InfluxDB, ClickHouse, Prometheus, Grafana, k6, RabbitMQ, EMQX, Docker, Kubernetes, Azure AKS

GfK Product Catalog

Senior IT-Specialist

Nürnberg, Germany

Aug 2015 – Oct 2018

- **Catalog of products, features, prices, sales data from European consumer market**

- Led a team of 3–5 engineers, transitioning a data lake processing monolith to a microservice architecture.
- Introduced Scala and functional programming concepts, improving code maintainability and team productivity.
- Optimized MS SQL and MongoDB queries and data pipelines, achieving significant reductions in processing time.
- Managed server and cloud infrastructure, including monitoring and customer incident handling
- Technologies - Scala/C#/F#/Perl, Angular, Node.js, Docker, MongoDB, Oracle, Kafka, Spark

Immowelt AG

Software Developer

Nürnberg, Germany

Sep 2009 – Aug 2015

- **Desktop CRM and real estate management software**

- Created import/export APIs for real estate portals in German-speaking countries
- Imported customer data from various DBMS and formats
- Developed the MS Office components integration with the desktop software
- Technologies - C#, WinForms, WF, WPF, MS SQL Server, COM, MS Office

Sintec GmbH

Software Developer / System Integrator

Fürth, Germany

Jun 2007 – Sep 2009

- **.NET software development in the customer projects**

- **Siemens Automation&Drives** - Developed an IDE-plugin for automation engineers using Simatic Step7.
- **Datev AG** - Invoice controlling software
- Technologies - C#, WPF, XML, VB

Areva Framatome ANP GmbH

Working Student

Erlangen, Germany

Oct 2004 – Oct 2006

- **Software for visualization of operational data from german nuclear power plants**

- Created internal tools for data visualization and analysis.
- Packaged software for Debian to simplify delivery and version management.
- Technologies - Perl-Tk, C, MySQL

Siemens AG, Corporate Technology

Working Student

Erlangen, Germany

Oct 2002 – Mar 2003

- Assisted in developing a diesel catalyst microcontroller project.
- Technologies - C, Perl

Gazprom Neftechim AO

Junior Software Developer

Salawat, Russia

Sep 1994 – Dec 1998

- Developed a technical documentation management system for chemical plants.
- Technologies - Delphi/Turbo-Pascal, Microsoft Access

EDUCATION

Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

Erlangen, Germany

Master in Computer Science

Sep 2000 – Apr 2007

- **Courses:** Distributed Systems, Databases, Compiler Architecture
- **Master thesis:** Linux USB device driver in a user space for SCSI error injection
- **Study paper:** Concept and design of user interaction with software knowledge management system (SKM)

Ufa State Aviation Technical University (USATU)

Ufa, Russia

Master in Engineering

Sep 1994 – Dec 1998

- **Courses:** Automation and control of manufacturing plants and processes

CERTIFICATIONS

CPRE-FL – Certified Professional for Requirements Engineering, Foundation Level

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TECH TALKS & PRESENTATIONS

- Async Programming Sep 2015
- Programming in Scala Feb 2017
- Property Based Testing with C# using FsCheck Mar 2019
- Actor Systems Apr 2021

LANGUAGES, SKILLS

- **Languages:** German (Native), Russian (Native), English (Proficient)
- **Programming:** C#, F#, Scala, Rust, .NET, .NET Core
- **Databases:** Postgres, Oracle, MS SQL Server, MongoDB, ClickHouse, InfluxDB, Timescale, Prometheus, VictoriaMetrics
- **Messaging platforms:** RabbitMQ, Kafka, EMQX, NATS
- **DevOps & Cloud:** Docker, Kubernetes, Azure, Grafana, k6, OpenTelemetry, Akka, Proto.Actor
- **Interests:** Functional programming, Performance Tuning, Time Series, IoT, Machine Learning