Igor V. Udovichenko | Software Engineer

Contact Information

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Professional Summary

Experienced Software Engineer with 21 years of expertise in software development, including 6 years specializing in Scala and 15 years in .NET. Skilled in designing and developing scalable, high-performance backend systems with a strong emphasis on functional and object-oriented programming principles. Proficient in integrating external systems, creating robust microservices, and optimizing complex applications to enhance efficiency and scalability.

Key Skills

- Programming Paradigms:
  - Functional Programming, Object-Oriented Programming
- Programming Languages:
  - Scala, C#
- Libraries & Frameworks:
  - Cats, Cats-Effect, Akka, Monix
  - Tapir, http4s, sttp, Quill, Slick, Circe
- Databases:
  - PostgreSQL, Apache Cassandra, HBase, Redis, MS SQL, MongoDB
- Tools & Technologies:
  - Apache Kafka, Docker, RabbitMQ, Microsoft Azure, Jenkins, gRPC
- Additional Expertise:
  - System Architecture Design, Integration with External APIs, CI/CD Pipelines
  - Experience with .NET and JavaScript

Professional Experience

Region LLC (Almaty, region.app)

Scala Software Engineer | August 2023 - Present

- Developed backend services for a transport management application.
- Developed a task scheduling module with latency under 2 seconds.
- Designed and implemented a microservice for payment integration, enabling single and two-stage payments and credit card management.
- Engineered a vehicle tracking system to process GPS data, providing location updates for predefined routes and integrating GraphHopper for route optimization and deviation alerts.

Stack: Scala, Cats-Effect, Tapir, Akka, Kafka, Cassandra, Redis, PostgreSQL, GraphHopper, Protobuf, gRPC

Center for the Development of Innovative Technologies (crpt.ru)

Scala Software Engineer | October 2018 - August 2023

- Designed system architecture and developed an electronic document management system from scratch, improving scalability and efficiency.
- Implemented integration with 1C and other government-regulated systems, enhancing interoperability and compliance.
- Enabled machine-readable powers of attorney for legal entity transactions.
- Built a comprehensive logging system to track and debug processes.
- Developed reprocessing mechanisms for handling failed or delayed operations.

Stack: Scala, Monix, Akka, Cats, HBase, Apache Phoenix, Apache Kafka

OFD.uz

Lead Developer | April 2018 - October 2018

- Led architecture design and developed backend and frontend features for online sales registers.
- Built a single sign-on system and integrated Yandex Maps.
- Established CI/CD workflows using Jenkins.

Stack: .NET, ASP.NET MVC, MS SQL, Redis, RabbitMQ, React, Angular

Tyrecheck (Ireland, tyrecheck.com)

Senior Developer (Full Stack) | February 2013 - April 2018

- Developed an information system for tire manufacturers and service stations.
- Automated tire maintenance processes, including telemetry data collection and wear-based replacement logic.
- Improved data processing speed by 30% through performance optimization in Windows Mobile applications.

  Stack: ASP.NET MVC, MS SQL, MSSQL, Azure, Vue.js, Microsoft .NET CF

Education
Bachelor of Electrical Engineering
Tashkent State Technical University | 2017

Certifications
- Microsoft Certified Professional
- Write Asynchronous C# Code With Tasks and PLINQ

Languages
- Russian: Native
- English: Advanced (C1)