

# Jozef Čechovský

software engineer, analyst

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## PROFILE

**Date of birth:** 03.06.1988  
**Nationality:** Slovak  
**Languages:** Slovak (L1), English (C1), German (A2)

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## EDUCATION

**Comenius University Bratislava, MSc., 2010 – 2013**

[Applied informatics, Artificial Intelligence](#)

Master Thesis: Hierarchical categorization of data

**Comenius University Bratislava, BSc., 2007 – 2010**

[Applied informatics](#)

Bachelor Thesis: Software for the competition Robocup Slovakia

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## EXPERIENCES

**Freelancer, 03/2014 – present**

[software engineer, analyst](#)

- Implementation of the software for private customers
- Creation of the solution and design proposals
- Designing of the software architecture
- Requirements analysis and correction
- Consultation of the software development processes
- Proposing the testing strategies and tests implementation
- Writing technical documentation

**ERNI (Slovakia), 07/2012 – 02/2014**

[software engineer](#)

- Development of the software for Swiss customers in agile methodologies
- Requirements analysis and correction
- Architectural proposals
- Writing technical documentation

**Kedros, 07/2011 – 06/2012**

[developer .NET, part-time](#)

- Development of the web application
- Preparation of reports templates
- Resolving issues with 3rd party software company.

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**Datapac, 03/2009 – 06/2011**

**developer .NET, part-time**

- Development of the internal and later customer applications
- Preparing presentations about technologies

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## **COURSES**

**Mining Massive Datasets, [Coursera](#)**

**Architecting Microsoft Azure Solutions, [edX](#)**

**Introduction to Computer Science and Programming Using Python, [edX](#)**

**Building Cloud Apps with Microsoft Azure - Part 2, [edX](#)**

**R Programming, [Coursera](#)**

**Advanced conversation skills in English, [British Council](#)**

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## **SKILLS**

### **LANGUAGES**

**Advanced**

C#, XAML, UML

**Intermediate**

Python, JavaScript, SQL, HTML, CSS, JAVA, SQL

**Beginner**

F#, R, C++

### **FRAMEWORKS, LIBRARIES**

**Advanced**

WPF, jQuery, .NET for Windows Store, MVVMLight, LightInject, Specflow

**Intermediate**

ASP.NET WebApi 2, ASP.NET MVC, ASP.NET WebForms, WCF, Entity Framework, ADO.NET, Json.NET, ILNumerics, RabbitMQ

### **OPERATING SYSTEMS, DATABASES, ENVIRONMENTS, TOOLS**

**Advanced**

Windows, Visual Studio, Resharper

**Intermediate**

Git, TFS, SQL Server, SQL Management studio, Nuget, Subversion Enterprise Architect, XmlSpy, Proto.io

**Beginner**

Linux, IntelliJ, Eclipse, RStudio, Oracle

### **METHODOLOGIES, PRINCIPLES, PROCESSES**

**Advanced**

Agile, SCRUM, Test driven development, Unit testing, MVVM, Dependency injection

**Intermediate**

Design patterns, Behaviour driven development, Event sourcing, Domain driven development, RUP, Continuous integration, Mocking

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## **PERSONALITY**

open-minded, willing to learn, communicative, with sense for details, empathetic

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## **INTERESTS**

technical and fantasy books, music, fitness, skiing, technologies

## PROJECTS

### CAPACITY MANAGEMENT SERVER MODULE; TICKETING

06/15 – 10/15, [freelancer for Retailsoft s.r.o.](#)

Analysis, architecture and development of the server module for touristic attractions ticket selling in Amsterdam (Tours&Tickets). My module was part of already existing solution dealing with retail selling and it operates only with subset of attractions – attractions with capacity. I used the pattern Event sourcing to handle all actions happened in the system and to ensure smallest response time as possible. Produced events were used for smoke testing of plenty of scenarios that were written in Gherkin language and executed by Specflow. The module was called by more types of clients and it serves informations about state changes by RabbitMQ messages. During development I consulted another parts of system mainly integration of IoC container to existing solutions and Git philosophy of development.

**Roles :** analysis, architecture and development, writing behaviour, integration and unit tests, consultations

**Methods :** agile development

**Technologies, tools :** C#, WCF, Entity framework, RabbitMQ, Specflow, Visual studio, SQL Server, SQL Management Studio, Nuget, TFS, Trello

### SERVER MODULE AND INTRANET SYSTEM; ONLINE AUCTIONS

04/14 – 06/15, [freelancer for Quicksort s.r.o.](#)

Server module is responsible for the taxes calculation, price decomposition, business logic, invoices and orders tracking of the online auction portal Auctionata. Intranet system is aimed mainly to manage the data of the server module and to resolve variety of issues during the auction and e-shop selling.

**Roles :** development team consisted of 2 developers. My role was mainly development, software architecture, unit and integration testing, bug-fixing, documentation

**Methods :** agile development

**Technologies, tools :** C#, SQL, ASP.NET WebAPI 2, ASP.NET WebForms, SQL, Visual studio, SQL Server, SQL Management Studio, Git, GitLab, JIRA, Nuget

## **WINDOWS STORE APPLICATION; BUILDING SECTOR**

03/15 – present, [freelancer for Quicksort s.r.o.](#)

Windows store application for building consultants to track an issues and snags from buildings. Stored and resolved issues are synchronized with server and consultants have quick overview about state of concrete building.

**Roles :** development, software design, requirements analysis, testing

**Methods :** agile development

**Technologies, tools :** .NET for Windows Store, C#, XAML, Json.NET, Git, GitHub  
Visual studio, Expression blend

## **WINDOWS STORE APPLICATION; BANKING SECTOR**

04/14 – present, [freelancer for Smartvikings s.r.o.](#)

Windows store application for a premium J&T bank clients providing bank magazines, articles and news about bank and investing sector.

**Roles :** development, software design, requirements analysis, testing

**Methods :** agile development

**Technologies, tools :** .NET for Windows Store, C#, XAML, Json.NET, Git, GitHub  
Visual studio, Expression blend

## **QUALITY MEASUREMENT SOFTWARE; TEXTILE INDUSTRY**

09/13 – 02/14, [ERNI \(Slovakia\) s.r.o.](#)

Desktop application for textile quality measurement devices. Application is aimed to control device, setting up measurement program, to track and see measurement results in many graphs and visualisations.

**Roles :** development, software design, requirements analysis, testing

**Methods :** agile development

**Technologies, tools :** .NET for Windows Store, C#, XAML, Json.NET, Git, GitHub  
Visual studio, Expression blend

## **LOCKING SYSTEM MANAGEMENT SOFTWARE; SECURITY INDUSTRY**

08/12 – 08/13, ERNI (Slovakia) s.r.o.

Desktop application for the manufacturer of the mechanical and electronic locking systems. Application is designed to manage access rights of people belonging to locking system and to setting up locking system according to building owner needs.

**Roles :** development, software design, requirements analysis, bug fixing, unit testing

**Methods :** agile development

**Technologies, tools :** C#, MS Visual Studio 2012, MS Team Foundation Server 2012, ADO.NET Entity Framework, Entity Framework code first WPF, XAML, DevExpress, Autofac, MVVM pattern, MS SQL Server, Nuget

## **ELECTRONIC TOLLING SYSTEM ; TRANSIT INDUSTRY**

08/12 – 08/13, ERNI (Slovakia) s.r.o.

Desktop application for the manufacturer of the mechanical and electronic locking systems. Application is designed to manage access rights of people belonging to the locking system and to setting up the locking system according to the building owner needs.

**Roles :** development, software design, requirements analysis, bug fixing, unit testing

**Methods :** agile development

**Technologies, tools :** C#, MS Visual Studio 2012, MS Team Foundation Server 2012, ADO.NET Entity Framework, Entity Framework code first WPF, XAML, DevExpress, Autofac, MVVM pattern, MS SQL Server, Nuget

## **ELECTRONIC TOLLING SYSTEM ; TRANSIT INDUSTRY**

06/11 – 06/12, Kedros a.s.

Web application for the Slovak electronic tolling system that covers all highways and 1st class roads in Slovakia. This system manage all actions like vehicle registration, payments, road tracking, reporting etc.

**Roles :** development according to functional specifications, designs of screens, creating of report templates, communication with third party software company, bug fixing

**Methods :** waterfall

**Technologies, tools :** . #, ASP.NET MVC, jQuery, JavaScript, AJAX, XML, XSD, Silverlight, MS Visual Studio, MS Windows, Stimulsoft Reports.NET

## **OIL ORDER SYSTEM ; PETROCHEMICAL INDUSTRY**

06/10 – 04/11, [Kedros a.s.](#)

This system consists of three main parts. The first is WPF application for doing orders of oils, the next part is ASP.NET web application, where user can monitor orders and generate some reports. The last part is web services that executes the actions and contains the business logic.

**Roles :** implementation web services, ,database queries, data exports, generating PDF reports definition of XSL templates, designing XML structures

**Methods :** -

**Technologies, tools :** C#, .NET, WCF, SQL, XML, XSD, XSL, ADO.NET, MS Visual Studio, MS SQL Management Studio, XMLSpy