

Ondrej Ruttkay

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SUMMARY

- over 7 years of professional experience in Canada and Czech Republic as a .NET and Android developer

SKILLS

- analytical and inventive, with strong problem-solving and computer programming skills
- passionate about smart phone and smart watch development
- solid understanding of data structures, object-oriented programming and multi-threaded programming principles
- highly motivated, with strong attention to detail; able to work independently or in a team

SOFTWARE DEVELOPMENT PROFICIENCIES

Programming Languages

- C#
- Java
- SQL
- C/C++

Applications, Libraries & Platforms

- WPF, WCF, ASP.NET MVC, Entity Framework, Prism
- MS SQL Server, Oracle, SQLite
- Android API 2.3 – 5.1, Google Play Services, Pebble
- Git, TFS, SVN

PROFESSIONAL EXPERIENCE

Independent Contractor

Prague, Czech Republic

Oct. 2014 – present

Worked closely with a client in the cargo-transportation industry to design and develop an ASP.NET MVC web application on Azure Cloud, with Azure SQL Database for data storage. The solution provides a custom order and customer management with complete Google Apps integration.

NCR (Hospitality Group) – Software Engineer II

Prague, Czech Republic

May 2012 – Sept. 2014

Designed and developed a brand new native Android application called Command Center, used by bar & restaurant owners, managers and support staff for managing their POS terminals. The app mirrors the functionality of an existing Command Center client for Windows, such as VNC remote control, remote application and process management and much more. Developed back-end components used by the mobile client (using .NET stack).

Participated on a design and development of a new Command Center module called Network Health Monitoring. The main purpose is to perform custom measurements of bandwidth, latency, jitter and packet loss on client POS terminals and display the results in the Command Center application. The client part was developed using DevExpress controls and the server components were built using WCF and .NET Framework 4.5.

Gemalto (Government Programs) – R&D Software Engineer

Prague, Czech Republic

Nov. 2009 – Apr. 2012

Proposed a design of a new eVerification application used for reading and verifying of electronic documents (passports, ID cards). Developed a reference implementation of the application using C# and WPF (using MVVM), which has served as a reference component for the Delivery Center on multiple projects. The application supported extensibility through independent plug-ins and configurable workflow management.

Refactored an existing Enrolment solution, which was developed using C#, WPF & the Prism Library and created a customized prototype for a voter registration system – a project sponsored by the UN. Implemented a new data access layer using the Entity Framework with the SQLite database. The purpose of the application is to register and uniquely identify citizens using an automated fingerprint identification system, which was integrated into the solution.

Circletech – .NET Developer (part-time)

Prague, Czech Republic

May 2009 – Sept. 2009

Ported various modules (key derivation function, pseudo-random function, and cryptographic context format) of a mobile cryptosystem for voice encryption from Symbian C++ to .NET Compact Framework in C#. Consulted in the design of a new

encryption file format designed for a secure storage of encryption keys, text and media on mobile devices.

Clevit Systems – Senior .NET Developer

Prague, Czech Republic

Mar. 2009 – Apr. 2009

Worked on a development of a WCF-based (Named pipes and TCP bindings) extensible distributed middleware layer, providing a secure inter-machine object communication and data exchange. Implemented an application-layer protocol for a direct control of gaming devices. The protocol was used to develop a client/server model solution, using TCP/UDP Sockets.

Cleverlance Enterprise Solutions – Senior .NET Developer

Prague, Czech Republic

Jan. 2007 – Aug. 2007, Jan. 2008 – Apr. 2008

Designed and implemented a SWIFT message parser (used by banks for monetary operations) for an Enterprise solution application called Clever Trading Solution, which allows the investment brokers to conduct trading on Prague Stock Exchange.

Worked on a multi-tier web application that used .NET Remoting and web services to integrate a broad range of data sources to present information about customers in a concise manner. This application supported extensibility in the form of plug-ins, so additional data sources and customer information could be added at a later time.

Avanade Inc. – Applied Solutions Developer

Mississauga, Ontario, Canada

May 2006 – Sept. 2006

Worked as a .NET software developer/consultant on an Enterprise Integration initiative with Accenture and Nortel Networks. Member of a large team working on the biggest SAP – BizTalk mission-critical integration solution in North America at the time.

Designed and developed a custom ASP.NET role-based, multi-tier application with web services for flexible web-to-database interfacing, allowing users to administer and manage SQL databases online. Designed the SQL database structure used by the application and integrated it with BizTalk mapping tables.

Norbord Industries – Programmer/Analyst

Toronto, Ontario, Canada

Jan. 2005 – Apr. 2005, Sept. 2005 – Dec. 2005

Worked in a web development team that redesigned the Norbord corporate website using CSS, JavaScript, HTML and XML. Designed and implemented a full-scale order/shipment tracking application called Onbord using ASP.NET & Infragistics controls (for graphs) and MS SQL Server on the back-end.

EDUCATION

University of Waterloo - Bachelor of Mathematics, Honours Computer Science Degree

Waterloo, Ontario, Canada

Sept. 2004 – June 2010

Relevant Courses:

- Algorithm Design and Analysis
- Real-Time Programming
- Concurrent and Parallel Programming
- Computer Networking
- Sequential Programming and Compiler Design
- Computer Security, Cryptography and Privacy

Ontario Secondary School Diploma, Iona Catholic Secondary School

Mississauga, Ontario, Canada

Sept. 2000 - June 2004

AWARDS AND ACCOMPLISHMENTS

- University of Waterloo Honour Roll in the 1st, 2nd and 3rd year
- K.C. Lee Computer Science Scholarship (2007)
- Marsh Canada Memorial Scholarship (2004)
- Queen Elizabeth II. Aiming for Top Scholarship awarded to students demonstrating academic excellence in high school
- 2004 Ontario Scholar, awarded to students with a cumulative average of 80% or higher

EXTRA CURRICULAR ACTIVITIES

- Side project: OnkoCycle – Android navigation and bike computer for cyclists with Pebble smart watch support
- Photography, marathon running, chess, squash, books