Summary

Technology enthusiast and passionate full stack software developer offers 20-year experience with the entire SDLC, delivering intuitive and engaging UI designs with productive and effortless UX

(sampled at [www.alexPi.ca](http://www.alexPi.ca)).

Experience

Consulting in Toronto, ON

 RBC ***Software Engineer*** 2019/04 - 2019/07

• Implemented preliminary designs and front-to-back functionality for the new 2.0 version of the MoveSnap.com application (Angular 7, .NET Core):

• Worked on maintaining, bug fixing and design augmentations of an existing/in-production MoveSnap.com application (AngularJS, Node.js):

**Skills:** Angular 7, .NET Core, C#, RESTful API, PostgreSQL, GitHub, HTML, CSS, JS, TS.

 Nymi ***Software Engineer*** 2016/11 - 2019/02

Responsible for C# .NET application development for the Windows platform in the predominantly embedded C/C++ shop.

• Pioneered Windows-10 style best practices for UI/UX to overcome the “battleship grey” complacency for the critical client-facing applications.

• Designed and implemented efficient cross-platform (managed C# to unmanaged C/C++) communication schemes.

• Prototyped, implemented and brought to production multiple applications (WPF, UWP, Web MVC and Angular, PWA, etc.) and services (RESTful API) representing the user-facing functionality of managing all aspects of the company’s unique always-on-authentication devices.

**Skills**: .NET, C#, XAML, MVVM, UWP, MVC, RESTful API, Angular 6, PWA, GIT, SSMS, MS SQL.

[Sciex](https://sciex.com/) Sciex ***Software Engineer*** 2016/03 - 2016/11

Worked on various tasks of maintaining, fixing and evolving to the next level Sciex OS - the company's flagship WPF application used for research in mass spectroscopy.

• Developed custom FIT (Framework for Integrated Testing) fixtures allowing UI automation HTML scripts to manipulate custom controls of the applications under question.

• Designed and implemented various smaller applications facilitating better performance/execution of the daily tasks of the local QA team.

**Skills**: .NET, C#, WPF, XAML, MVVM, WCF, VS2015, SQLite, MongoDB, SVN, JIRA, TeamCity, FIT White.

**[](https://www.microsoft.com/en-us/store/p/buscatch/9nblggh5g5z1)** [AAVpro Ltd](https://www.microsoft.com/en-us/store/p/buscatch/9nblggh5g5z1) ***Software Engineer*** 2016/01 - 2016/02

Took a course on design and development for Universal Widows Platform (UWP). Implemented several apps, many of which have passed all the required certifications and made it to the Windows App Store, and now deliver up to the minute relevant info (incoming busses, rain, etc.) to my pocket and desktop.

**Skills:** UWP, .NET, C#, XAML, MVVM, WCF, VS2015, TFS.

[](https://www.bmo.com/) [BMO](https://www.bmo.com/) ***Software Engineer*** 2014/02 - 2015/12

Took a dev-lead role on a green-field project – OLP (Obligor Linking Project) – where I designed and implemented:

• Pioneered creative application of DNA sequencing techniques to the project’s problems resulting in 85% reduction of manual drudgery and seven-fold productivity increase.

• WCF REST service layer to serve the needs of the OLP project's distributed applications. MVC web application for a quick processing of To-do lists in the approval workflow spread across multiple departments.

Contributed code, designs, ideas, extensions, behaviors to [EPCatalyst](http://www.eikospartners.com/epcatalyst) – a Silverlight-based platform widely utilized at the bank.

**Skills**: .NET, C#, WPF, MVVM, MVC, ASP.NET, JSON, HTML, CSS, JS, Silverlight, VS2015, SSMS, T-SQL, MS SQL, Oracle, Entity Framework, ADO.NET, Windows Service, Agile Methodology, SVN, TFS.

[mobileLIVE - EmergiTEL Group](https://www.mobilelive.ca/#/) mobileLIVE ***Software Engineer*** 2013/10 - 2013/12

Lead design and implementation of a Microsoft Lync messenger extension – a model application serving as a proof of concept demonstrating aggregate capabilities spanning several mobile technologies. Created responsive UI/UX relying on async and await keywords as well as the TPL (Task Parallel Library) constructs. Coded comprehensive C# API layer to the Unmanaged C++ assembly. Authored Visual Studio code snippets which increased fidelity and speed of coding the MVVM design pattern.

**Skills**: VS2012, .NET 4.5, C#, C++, WPF, MVVM, LINQ, Agile Methodology.

[Livingston International](https://www.livingstonintl.com/) Livingston International ***Software Engineer*** 2013/02 - 2013/09

Worked on design and implementation of a rich client application using latest advances in the WPF/WCF/MVVM technologies and frameworks. Reduced development time for the existing data access layer as well as streamlined data flow to/from the back end databases without disrupting the current architecture of the application. Designed sophisticated reports using Microsoft SSRS as well as in-house developed custom tools.

**Skills**: .NET, C#, MS SQL, SSMS, T-SQL, WPF, MVVM, LINQ, Entity Framework, Agile Methodology.

[](http://www.citigroup.com/canada/en/) Citi ***Software Engineer*** 2012/10 - 2012/12

As a part of an intercontinental (Toronto-London-New York) team, worked on a high-performance/high-throughput trading platform – a WPF application based on a MVVM design pattern, with highly configurable/customizable plug-in architecture.

Engaged TPL (Task Parallel Library) to keep the UI/UX alive and responsive.

**Skills**: .NET, C#, WPF, MVVM, LINQ, Entity Framework, SVN, Infragistics, Agile Methodology.

 Global Financial ***Software Engineer*** 2011/11 - 2012/08

Designed and implemented several LOB applications:

* Electronic RESP Enroller: a replacement for the traditional paper-based enrollment process with the Android tablet-based approach to register new applicants faster and with fewer errors.
* Mobile RESP Calculator: A tool to support the RESP Enroller app by providing a quick and easy way to establish the right financial strategy facilitating quick navigation through a complex set of rules, regulations, starting conditions and ultimate goals.
* While the analyst team had been busy with specs gathering, created the app’s prototype on 4 platforms: WPF, Silverlight, native Android and MVS, targeting mobile as well as desktop hardware.

**Skills:** VS2010, .NET 4.0, C#, VB.NET, WPF, Silverlight, WCF, MVC, ASP.NET, HTML5, JavaScript, jQuery, HTML, CSS, JS, MS Access, T-SQL, SSMS, LINQ to SQL, Entity Framework, AJAX, TFS.

[Toromont CAT](http://www.toromontcat.com/) Toromont ***Software Engineer*** 2010/06 - 2011/11

Designed and implemented a rich client application (WPF) for a quick and highly automated entry into the local time tracking system, integrated with TFS as well as click-once timesheet/invoice creation, review and printing. Introduced innovative and productive experience resulting in 10 man-hour daily saving for the team. Ported existing classic ASP applications into ASP.NET 4.0 web form as well as Silverlight apps.

**Skills:** VS2010, .NET 4.0, C#, WPF, WCF, Silverlight, RIA, jQuery, HTML, CSS, JS, SSRS, SSMS, T-SQL, LINQ to SQL, Entity Framework, ASP.NET, ASP, AJAX, TFS.

**[CWB Group](https://www.cwbgroup.org/)** CWB Group ***Software Engineer*** 2009/10 - 2010/05

Implemented rich client application front end (WPF) as well as plumbing to and design of the back-end SQL server databases. Used early Beta bits of TPL (Task Parallel Library) to “defreeze” the application during long and lengthy SQL queries and server calls.

**Skills:** VS2010, .NET 4.0, C#, WPF, XML, MS Access, T-SQL, SSMS, Citrix, TFS.

[Green Shield Canada ](http://www.greenshield.ca/en-ca) Green Shield Canada ***Software Engineer*** 2008/12 - 2009/08

Carried out functional refactoring of common assemblies used by multiple corporate web applications for the purpose of utilizing the latest secure technologies (SSO by AD FS and Code Access Security).

**Skills:** VS2008, .NET 3.5, C#, ASP.NET, HTML, CSS, JS, WebForms, XML.

[Toromont CAT](http://www.toromontcat.com/) Toromont ***Software Engineer*** 2008/02 - 2008/11

Using emerging geo-coding technologies (Microsoft Virtual Earth and Google Earth) prototyped a GPS-based asset tracking demo application facilitating comparison of fuel expenses between different equipment delivery scenarios.

**Skills:** VS2008, .NET 3.5, C#, VB.NET, WinForms, WebForms, ASP.NET, HTML, CSS, JS, classic ASP, AJAX, WPF, Silverlight, Web Services, XML, T-SQL, OOP, ORM, NHibernate, MS Virtual Earth, Google Earth, TFS.

**[BDO IT Solutions (former Systemgroup Inc.)](https://itsolutions.bdo.ca/systemgroupinc/)** Systemgroup Inc. ***Software Engineer*** 2007/02 - 2008/01

Participated in a full development life cycle of an application for the Meridian Credit Union – a centralized information management tool. Worked on the front end of the application – a rich smart client using the latest advances in UI development – Windows Presentation Foundation (WPF).

**Skills:** VS2008, .NET 3.5, C#, WPF, WF, WCF, VB.NET, WinForms, Smart Client, Web Services, XML, XPATH, T-SQL, WSDL, OOP, TFS.

**[Direct Energy](https://www.directenergy.com/)** Direct Energy ***Software Engineer*** 2006/09 - 2007/02

Using SharePoint Server 2007 and WebParts of ASP.NET, devised a way to separate business logic development from graphic design and multilingual content support. Enhanced existing customer enrollment web application (a part of [www.directenergy.com](http://www.directenergy.com) site) by introducing mid-tier components reflecting new business rules added to the process.

**Skills:** VS2005, ASP.NET 2.0, C#, VB.NET, WinForms, WebForms, Web Services, XML, T-SQL, DTS, SharePoint Server, SOA, WSDL, OOP.

**[Magna Cosma International](http://www.magna.com/)** Magna International ***Software Engineer*** 2005/11 - 2006/07

Took technical lead on late stages of a project of conversion from Lotus Notes to a modern ASP.NET 2.0 business workflow application. Designed and implemented rich, responsive and intuitive UI using ASP.NET WebForms, AJAX technology and third-party web control libraries (Infragistics, Skelta, etc.) Optimized T-SQL code to outperform existing means of data handling by two orders of magnitude.

**Skills:** VS2005, ASP.NET 2.0(1.1), C#, VB.NET, WinForms, WebForms, Web Services, XML, T-SQL, ORM, NHibernate, SSMS, DTS, Excel, SOA, WSDL, OOP, IIS.

**[ThoughtCorp](https://www.epam.com/)** Thoughtcorp ***Software Engineer*** 2005/04 - 2005/10

Participated in several projects concerned with high volume customer billing and payment systems for Bell Canada. Designed and implemented numerous ASP.NET WebForms with underlying middle tier C#-based business objects as well as data processing scripts for Oracle database using PL SQL. Exposed business logic and data to the non-.NET clients in a platform neutral manner using Web Services.

**Skills:** ASP.NET 1.1, C#, VB.NET, WinForms, WebForms, Web Services, XML, PL SQL, Oracle, Excel, SOA, WSDL, OOP, IIS.

**[Arbor Memorial](https://www.arbormemorial.ca/en/)** Arbor ***Software Engineer*** 2004/08 - 2005/04

Designed and implemented a standalone multithreaded .NET WinForm application which asynchronously decoded instructions from MS Word documents and performed scheduled de-normalization and data transfer from a production OLTP SQL server to various reporting non-SQL clients based on the decoded instructions. Refactored and optimized poorly performing middle-tier components as well as improved existing design and reduced amount of code by employing OOP methodology.

**Skills:** .NET, C#, WinForms, WebForms, XML, T-SQL, DTS, FoxPro, MS Access, ASP.NET, IIS, MS SQL Server, OOP.

**BMO** BMO 2003/04 - 2004/07

Participated in one of the largest .Net project: $25,000,000 budget, several million lines of code, and at the same time record-breaking completion time. Designed and implemented several key components of the application: a reflection-based attribute driven cross-tier dataflow and mapping system, which reduced tenfold amount of code to write, test and maintain; numerous WinForms and business tier components.

**Skills:** .NET, C#, WinForm, XML, WSDL, SOA, OOP.

**[CSG](http://www.csgi.com/)** CSG 2003/02 - 2003/04

Participated in developing a LAN-based security system aimed at fast and fault tolerant notification of various external events to designated monitoring stations on the network. Designed and implemented a .NET-based WinForm application – an administrative tool for setting up variety of interconnected RF and IR devices and orchestrating their activity. Employed OOP methodology to resolve complexity of the task; applied the Memento software pattern to capture and externalize the objects’ internal states without violating encapsulation.

**Skills:** .NET, C#, VB.NET, WinForm, XML, T-SQL, MS Access, OOP.

**[Arbor Memorial](https://www.arbormemorial.ca/en/)** Arbor 2002/03 - 2003/01

Provided with .NET expertise to implementation of a large-scale WebForm based contract management and accounts receivable system. Employing OOP methodology, enhanced the application design which reduced coding volumes by one order of magnitude as well as improved maintainability and extensibility.

**Skills:** ASP.NET, C#, COM+, XML, T-SQL, DTS, FoxPro, MS Access, MS SQL, IIS, OOP.

Experience

Other

[Cetaris Home](https://www.cetaris.com/) 1995/05 - 2002/02

Implemented a real-time car auction web application [www.CARbid.ca](http://www.CARbid.ca) using the latest Microsoft technologies before their official release (ASP.NET WebForms). Member of a team that designed The PayPro Network for CIBC, the first Internet payment system to meet financial industry’s security standards:

**Skills:** .NET, ASP.NET, IIS, .NET Remoting, C#, VB.NET, WinForms, WebForms, Web Services, XML, T-SQL, DTS, FoxPro, MS Access, MS SQL, HTML, ASP, XML-XSLT, XPath, XQuery, VB, VC, ATL, COM/DCOM, COM+, MTS, Crystal Reports, C++, VC, MFC, OOP, UML, SOA, SOAP, Windows Service.

**UkrAlko** Head of IT Kiev, UA 1992/04 - 1994/11

Lead a team in design and implementation of a LAN-based perpetual-inventory system (the first really working in the city) using early OOP capabilities of C++.

**Academy of Sciences** Staff Scientist Kiev, UA 1987/06 - 1992/05

Participated in projects: “Noncooled Infrared Magneto-Injection Emitters Based on CdHgTe”, “Holographic Correction of Distortions of Acousto-Optical Modulator in Photorefractive Crystals”:

Education

**Microsoft Official Curriculum courses, Developmentor advanced classes 2001/05**

• Microsoft Certified Professional (MCPS)

• Microsoft Certified Solution Developer (MCSD), Visual C++ and SQL Server tracks

**University of Kiev, UA**

• Master of Science in Quantum Radiophysics and Electronics

Technologies Mastered

.NET, UWP, WPF, Silverlight, Angular, MVVM, ASP.NET, MVC, C#, XAML, T-SQL, Windows Workflow Foundation, Microsoft Visual Studio, WCF, Web Services, RESTful API , RIA Services, WinForms, WebForms, Entity Framework, ORM, NHibernate, jQuery, JSON, AJAX, HTML, CSS, JS, Microsoft Virtual Earth, Google Earth, C/C++, PL SQL, DTS, ADO.NET, IIS, VB.NET, VB6, UML, Visio, SharePoint, RAD of multi-tier applications, XML, SOAP, WSDL, Win32, ATL, MFC, VBScript, JavaScript, COM/DCOM, COM+, MTS, HTML, DHTML, SOA, OOP, ODBC, Oracle, MS Access, MS SQL, SSMS, SSRS, SSIS, PowerShell, Crystal Reports, Git, Visual Source Safe (VSS), Team Foundation Server (TFS), SVN, JIRA, Bitbucket, Windows Service, Azure, SQLite, MongoDB, Confluence.