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Summary

Discover the craftsmanship of Alex, *Full-Stack Maestro*, with 15+ years of proven success in entire SDLC and developing great UI/UX for desktop, web, and mobile applications. Tech enthusiast and skilled developer, I deliver cutting-edge, user-friendly enterprise applications that cater to diverse needs. With a flair for intuitive, responsive design, I enhance accessibility and functionality, ensuring a frictionless user experience. Known for problem-solving and client-focused solutions, I push technology to its limits to ensure demonstrable impact...

…Also, avid professional hobbyist with passion

for developing practical daily-use applications, including apps for revenue/time tracking, taxes, crowd control, weather-based planning, and tutorial games for kids, transforming chores into enjoyable experiences.

Objective

Aiming to secure a hands-on role, leveraging my abilities to create impactful applications and sophisticated solutions that meet business requirements and significantly enhance the user experience.

Technical Proficiencies

.NET, WPF, UWP, Blazor, MAUI, ASP.NET, MVC, Razor, MVVM, C#, C/C++, XAML, GPT-4, T-SQL, Microsoft Visual Studio, WWF, WCF, Web Services, RESTful API, RIA Services, WinForms, WebForms, Silverlight, Entity Framework (EF), ORM, NHibernate, JSON, AJAX, HTML, CSS, JS, Angular, ReactJS, jQuery, Google Earth, Microsoft Virtual Earth, PL SQL, DTS, ADO.NET, IIS, VB.NET, VB6, UML, Visio, SharePoint, XML, SOAP, WSDL, Win32, ATL, MFC, VBScript, JavaScript, COM/DCOM, COM+, MTS, OOP, PowerShell, Crystal Reports, MS Office Automation, Git, GitHub, VSS, TFS, SVN, Bitbucket, Windows Service, Azure, CI/CD, DevOps, ODBC, Oracle, SQLite, MongoDB, MS Access, MS SQL, SSMS, SSRS, SSIS, ETL, JIRA, Confluence.

Projects & Consulting Experience

RBC Capital Markets, Toronto, Ontario 2022/12 – 2023/12

Full-stack Developer

Refined the company’s core trade application by adding advanced business logic and redesigning a more efficient user permissions management system.

* Demonstrated surgical precision in bug fixing and new business logic implementation to ensure the smooth functioning of the flagship application that manages trade processes in the backbone servers of RBC.
* Developed several standalone applications to streamline various in-house chores, incorporating modern UX styles and leveraging the latest advancements in the .NET platform.
* Recognized for my innovative approach in designing a one-click symmetrical permission editor UX as well as enhancing the overall user experience of the existing in-house tools.
* Developed a side project application that transformed disarrayed table tennis enthusiasts into well-behaving teams, creating a cohesive playing experience. Expanded its accessibility by porting from a WPF desktop app to cross-platform availability on UWP, Angular, MAUI, and Blazor.
* Ported my Microsoft Teams ChatGPT bot into a standalone automated WebEx client.
* *Technology stack used:* WPF/XAML, .NET 8.0, C#, UWP, Angular, MAUI, Blazor, XML-XSLT, ETL, MS SQL, EF, GPT-4.

CI Financial, Toronto, Ontario 2021/01 – 2022/10

Full-stack Developer

Led the design and development of new applications and refined existing ones, bolstering team productivity with innovative tools.

* Expertly utilized .NET 6.0 (XAML, C#) / MS SQL stack for designing and implementing green-field desktop applications:
  + RIF-LIF Payment Calculator/Scheduler – 100x accelerator/replacer of the Excel-based solution at hand,
  + Database Process Launcher/Manager – innovation in action.
* Introduced automation for local code repository deliverables using Azure's CI/CD pipeline.
* Boosted team efficiency by developing operational support apps, leveraging ChatGPT's conversational AI for real-time log analysis and a Microsoft Teams bot integration.
* Assisted in resolving bugs within the existing suite of local enterprise back-end applications.
* *Technology stack used:* WPF/XAML, .NET 6.0, C#, Java, MS SQL, EF, ETL, Azure, CI/CD, DevOps, GPT-3.5.

Multiple Employers, Toronto, Ontario 2019/04 – 2020/11

Full-stack Developer

Managed multiple large applications from front-to-back with great precision. Augmented, designed, developed, and implemented existing and new applications for multiple companies such as – Iress, AAVpro, and RBC.

* **Iress:** Diligently maintained and enhanced Iress Pro, the company's premier professional trading platform, with a focus on resolving bugs and developing critical improvements.
  + Implemented headless backend and rich-UI apps to streamline data flow between Iress and external clients.
  + Devised a set of utilities helping to share RDP access to the highly contested remote servers.
  + Engineered a real-time system for monitoring logs and alerting on critical backbone process activities.
  + *Technologies:* ReactJS, .NET Core, .NET 5.0, WPF, WCP, C#, MS SQL, EF, ETL, GitHub, HTML, CSS, JS, TS.
* **AAVpro Ltd**: Delivered comprehensive web development services encompassing architecture, design, implementation, and deployment to Azure for the web application [www.alexPi.ca](http://www.alexPi.ca).
  + Engineered an Angular front-end interface, enhanced with personalizable theming and animated transitions.
  + Implemented RESTful web services to act as a layer on top of the Azure SQL Database for usability tracking.
  + Established a CI/CD pipeline for automatic deployment to Azure on every merge to the main branch.
  + Leveraged Azure's Computer Vision services to conceptualize and develop an OCR proof of concept.
* **RBC**: Crafted and integrated [www.MoveSnap.com](http://www.MoveSnap.com)'s full-stack features using Angular, .NET Core, Repository and Unit of Work design patterns. Designed the underlying PostgreSQL database schema.
  + Improved MoveSnap.com’s backend by designing and adding the relevant CRUD RESTful API end points.
  + Revamped the MoveSnap.com landing page with fresh branding and a responsive design for desktop and mobile application versions.
  + *Technologies:* Angular, ASP.NET Core, C#, MVC, Razor, RESTful API, PostgreSQL, EF, GitHub, CSS, HTML, TS.

Nymi, Toronto, Ontario 2016/11 – 2019/02

Full-stack Developer

Led and engaged in C# .NET app development, modernized client-facing tools by employing Windows 10 UI/UX best practices to address the dated "battleship grey" style. Streamlined cross-platform communication protocols for improved interoperability.

* Designed and kickstarted development for a range of web, desktop, and mobile apps, along with user-centric services for always-on-authentication devices.
* Engineered an efficient two-way communication method between devices, connecting C# and embedded C++ without polling, thereby conserving battery and CPU resources.
* *Technologies:* .NET, ASP.NET, C, C#, C++, XAML, MVVM, UWP, MVC, Razor, RESTful API, Angular 6, PWA, GIT, SSMS, MS SQL, EF, HTML, CSS, JS, TS.

Sciex, Toronto, Ontario 2016/03 – 2016/11

Front-end Developer

Maintained, fixed, and evolved company’s flagship WPF application for mass spectroscopy research, securing the progress with extensive unit and UI automated testing for enhanced stability.

* Customized Framework for Integrated Testing (FIT) fixtures to manipulate controls and allow UI automation HTML scripts in applications.
* Enhanced the efficiency of the local QA team by developing several QA automation/helper applications.
* *Technologies:* .NET, C#, WPF, XAML, MVVM, WCF, SQLite, MongoDB, SVN, JIRA, TeamCity, FIT White.

BMO, Toronto, Ontario 2014/02 – 2015/12

Full-stack Developer

Designed intuitive applications for the OLP project, encompassing a datalink console and multi-stream data acquisition tool with an intuitive UI. Made substantial contributions to the development and enhancement of EP-Catalyst, a Silverlight-based platform commonly utilized within the bank.

* Served as Development Lead guiding the creation of advanced applications for the OLP project.
* Creatively applied DNA sequencing algorithms, specifically the ***Levenshtein Distance***and***Jaccard Similarity Coefficient***, to streamline data cleaning procedures resulting in an astounding 85% decrease in manual tasks.
* Implemented a WCF REST service layer to meet OLP project’s distributed application needs.
* Streamlined interdepartmental workflow approval with a MVC web app that expedited To-do list processing.
* Developed a custom reporting system that delivers daily DAQ run updates via email and web-client notifications.
* *Technologies:* .NET, C#, WPF, MVVM, MVC, Razor, ASP.NET, JSON, HTML, CSS, JS, Silverlight, VS2015, SSMS, T-SQL, MS SQL, EF, Oracle, ADO.NET, Windows Service, Agile Methodology, SVN, TFS.

Multiple Employers, Toronto, Ontario 2013/02 – 2013/12

Full-stack Developer

Designed various useful and sophisticated tools, apps, reports, and extensions. Enabled technological advancements of existing processes. Revamped existing architecture and improved UI/UX of different applications.

* **mobileLIVE**: Directed the design and implementation of a Microsoft Lync messenger extension, featuring a responsive UI/UX crafted with Task Parallel Library, async, and await for the best user experience.
  + Coded a C# API interface to bridge with the existing C++ assembly.
  + Added animated transitions into the app's UI and infused graphic assets to embody the product's branding.
  + Increased fidelity and coding speed for MVVM design pattern by using Visual Studio code snippets.
  + *Technologies:* VS2012, .NET 4.5, C#, C++, WPF, MVVM, LINQ, Agile Methodology.
* **Livingston International**: Employed the latest WPF/WCF/MVVM technologies/patterns for the company’s needs.
  + Simplified complex, multi-step business workflows into single-page applications with sleek designs, fluid transitions, and informative tooltips.
  + Optimized the existing data access layer, accelerating development and enhancing data exchange with backend databases without altering the application's architecture.
  + Created custom tools and advanced reports for in-house use.
  + *Technologies:* .NET, C#, MS SQL, SSRS, T-SQL, WPF, MVVM, LINQ, EF, Agile Methodology.

Multiple Employers, Toronto, Ontario 2011/11 – 2012/12

Full-stack Developer

Completed high-value, plug-in architecture project for Citi. Designed and implemented sophisticated applications for Global Financial company. Tasked with infrastructure development, UX/UI improvements, and prototype development for different business platforms.

* **Citi**: Collaborated with intercontinental team to work on high-throughput trading platform based on MVVM design pattern with highly configurable plug-in architecture.
  + Implemented a real-time reporting system for sub-second delivery and highlighted different parameters of trading data torrents through alerts, custom filtering, and data driven triggers.
  + Corrected idiosyncrasies related to third-party components that were irrevocably integrated into application.
  + Provided highly tailored infrastructure configuration with reflection-based type instantiation and clever defaults based on end-user preferences and delivered best user experience.
  + *Technologies:* .NET, C#, WPF, MVVM, LINQ, EF, SVN, and Agile Methodologies.
* **Global Financial**: Designed various LOB applications, including Electronic RESP Enroller and Mobile RESP Calculator.
  + Developed a task tracking tool to streamline project lifecycle management, offering executives a dashboard for instant, comprehensive project health assessments with real-time delivery forecasting.
  + Crafted a touch-friendly Mobile RESP Enroller app for streamlined registration, financial strategy selection, and regulatory compliance.
  + Enabled multilingual support for MVC applications using a new tool that auto-translates UI elements via Microsoft Translator API, plus a feature for language experts to manually refine translations without developer intervention.
  + Designed new corporate screen saver equipped with several features such as corporate counters, unread email notifications, optional local traffic, and weather gadgets.
  + *Technologies:* VS2010, .NET 4.0, C#, VB.NET, WPF, Silverlight, WCF, ASP.NET, MVC, Razor, HTML5, JavaScript, jQuery, HTML, CSS, JS, MS Access, T-SQL, SSMS, LINQ to SQL, EF, AJAX, TFS.

Toromont, Toronto, Ontario 2010/06 – 2011/11

Full-stack Developer

Refined and modernized a broad code base of client’s applications, from classic ASP to the latest cutting-edge development technologies, bolstered by robust T-SQL and third-party components. Enhanced a client's time tracking system with an automated, quick-entry feature in the application.

* Revolutionized the time tracking system, transforming it into an engaging activity and saving the team 10 man-hours daily, while significantly cutting down data latency by porting a legacy ASP code into a modern WPF app.
* Crafted detailed reports using Microsoft SQL Server Reporting Services (SSRS).
* With extreme care worked on a complex codebase, including classic ASP, modern ASP.NET applications, and overblown T-SQL scripts.
* Upgraded legacy systems by transitioning classic ASP applications to ASP.NET 4.0 web forms and Silverlight apps.
* *Technologies:* VS2010, .NET 4.0, C#, WPF, WCF, Silverlight, RIA, ASP.NET, ASP, jQuery, HTML, CSS, JS, SSRS, SSMS, T-SQL, LINQ to SQL, EF, AJAX, TFS.

CWB Group, Toronto, Ontario 2009/10 – 2010/05

Full-stack Developer

Implemented rich client application front end (WPF) as well as plumbing to and design of the back-end SQL server databases.

* Mitigated risks to both present and future code updates by providing comprehensive unit tests for the logic at hand.
* Enhanced app responsiveness to long SQL server calls with pioneering use of the early beta bits of the Task Parallel Library (TPL).
* *Technologies:* VS2010, .NET 4.0, C#, WPF, XML, MS Access, T-SQL, SSMS, Citrix, TFS.

Additional Experiences

Consultant, Green Shield Canada, Canada

Full-stack Developer, Toromont, Canada

Full-stack Developer, Systemgroup Consulting, Canada

Full-stack Developer, Direct Energy, Canada

Full-stack Developer, Magna International, Canada

Full-stack Developer, Thoughtcorp, Canada

Full-stack Developer, Arbor, Canada

Full-stack Developer, BMO, Canada

Full-stack Developer, CSG, Canada

Full-stack Developer, Cetaris, Canada

Director | Mobile Developer, AAVpro Ltd., Canada

Head of IT, UkrAlko, Kyiv, Ukraine

Staff Scientist, Kyiv, Ukraine

Education

Master of Science in Quantum Radio-Physics and Electronics

Taras Shevchenko National University of Kyiv, Ukraine

Professional Training

Microsoft Certified Professional (MCPS) – Microsoft Official Curriculum Courses

Microsoft Certified Solution Developer (MCSD), Visual C++ and Server Tracks – Microsoft Official Curriculum Courses