Alex Pigida

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Full-Stack Software Engineer

Diligent Full-stack Software Developer with 15+ years of proven success in entire SDLC, intuitive front-end designing, and developing great UI/UX for websites, desktop, and mobile applications. Technology enthusiast with in-depth knowledge of the latest software development technologies. Expertise in creating amazing enterprise applications to address diverse business requirements. Able to provide functional, beautiful, and user-friendly technology and design solutions. Proficient in increasing applications accessibility and appearance by adding responsive, intuitive, and easy to use features and functionalities. Highly skilled at consulting, problem-solving, and addressing client needs. Avid professional hobbyist with extensive skill set for developing numerous useful applications for everyday life, including apps for revenue/time tracking, taxes, weather-based planning, and tutorial games for kids, to make digital chores a breeze and fun-activity.

Technical Proficiencies

.NET, WPF, UWP, Angular, ReactJS, Blazor, ASP.NET, MVC, MVVM, C#, C/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, 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, HTML, DHTML, OOP, PowerShell, Crystal Reports, MS Office Automation, Git, GitHub, VSS, TFS, SVN, Bitbucket, JIRA, Windows Service, Azure, CI/CD, DevOps, ODBC, Oracle, MS Access, MS SQL, SSMS, SSRS, SSIS, ETL, SQLite, MongoDB, Confluence.

Projects & Consulting Experience

RBC Capital Markets, Toronto, Ontario   2022 – 2023
Full-stack Developer

Enhance the main trade application, implement new business logics, and develop efficient user permission management systems. Continual skills upgrade and collaboration have been key to delivering superior solutions.

- Leveraged my expertise in Microsoft development technologies and C# language to maintain, debug, and enhance the flagship application that manages all trade processes in the backbone servers of RBC.
- Demonstrated surgical precision in bug fixing and implemented new business logic to ensure the smooth functioning of the application.
- Developed and introduced multiple highly efficient applications to streamline user permissions management, 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, enhancing the overall user experience.
- Took on a side project, designing and implementing an application that transformed disarrayed table tennis enthusiasts into well-behaving self-orchestrated teams, creating a cohesive playing experience. To extend the application's reach to a broader user audience, I ported the original WPF desktop application to UWP, Angular, and Blazor platforms/frameworks.
- Consistently updated my technical skills to stay up to date with the latest industry trends and technologies.
- *Technology stack used:* WPF/XAML, .NET 8.0, C#, UWP, Angular, Blazor, XML-XSLT, ETL, MS SQL.

CI Financial, Toronto, Ontario   2021 – 2022
Full-stack Developer

Oversee, design, and develop new applications while modifying the existing ones. Design team's productivity enhancing tools. Implement several desktop applications and assist in fixing bugs on local enterprise back-end applications. Utilize .NET Framework, Java, MS SQL stack for new software development.

- Expertly utilized .NET 6.0 (XAML, C#)/ MS SQL stack for designing and implementing green-field desktop applications.
- Initiated automation of local code repository using Azure through fully automated CI/CD pipeline.
- Improved team productivity through tactical support apps by using social smarts from OpenAI with real-time log monitor and MS Teams bot.

- *Technology stack used:* WPF/XAML, .NET 6.0, C#, Java, MS SQL, ETL, Azure, CI/CD, DevOps.

Multiple Employers, Toronto, Ontario   2019 – 2020
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:** Maintained existing application, designed augmentations, and fixed bugs with complete precision for company's flagship application and professional trading platform – Iress Pro.
    - Implemented headless backend and rich-UI apps to streamline data flow between Iress and external clients.
    - *Technology stack used:* ReactJS, .NET Core, .NET 5.0, WPF, WCP, C#, MS SQL, 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.
    - Engineered an Angular front-end interface, enhanced with personalized theming and animated transitions.
    - Constructed RESTful web services that act as a layer on the Azure SQL Database for website tracking.
    - Incorporated a CI/CD pipeline that automatically deploys to Azure every merge-in to the main branch.
    - Exploited Azure's Computer Vision services to conceptualize and develop OCR proof of concept.

- **RBC:** Implemented original designs and front-to-back functionality using Angular 7 and .NET Core for MoveSnap.com application – Version 2.0. Added new features and extensions such as components, modules, services, types, templates, and styles to existing pages. Incorporated tables and columns to underlying PostgreSQL database.
    - Enhanced backend functionality of MoveSnap.com by designing and adding CRUD end points. Maintained, fixed bugs, and designed augmentations of app.
    - Overhauled the landing page by incorporating new branding elements and introducing a dynamic layout for both desktop and mobile versions of the application.
    - *Technology stack used:* Angular, ASP.NET Core, C#, MVC, RESTful API, PostgreSQL, GitHub, CSS, HTML, TS.

Nymi, Toronto, Ontario   2016 – 2019
Full-stack Developer

Supervised C# .NET app development for Windows. Fixed critical client-facing apps with battleship grey complacency issue by championing Windows-10 UI/UX best practices. Efficiently introduced cross-platform communication schemes.

- Prototyped, implemented, and initiated development of various apps for website, desktop, and mobile as well as user-facing functionalities services for always-on-authentication devices.
- *Technology stack used:* .NET, ASP.NET, C#, XAML, MVVM, UWP, MVC, RESTful API, Angular 6, PWA, GIT, SSMS, MS SQL, HTML, CSS, JS, TS.

Sciex, Toronto, Ontario   2016 – 2016
Front-end Developer

Maintained, fixed, and evolved company's flagship WPF application used for mass spectroscopy research. Secured coding undertakings with detailed unit and UI automation tests.

- Customized Framework for Integrated Testing fixtures to manipulate controls and allow UI automation HTML scripts in applications.
- Enhanced the efficiency of the local QA team by developing a variety of practical and beneficial applications.
- *Technology stack used:* .NET, C#, WPF, XAML, MVVM, WCF, SQLite, MongoDB, SVN, JIRA, TeamCity, FIT White.

BMO, Toronto, Ontario   2014 – 2015
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.

- Assumed the role of Development Lead for a green-field project, directing the design and implementation of sophisticated client and web applications centered around the OLP project.
- Implemented DNA sequencing algorithms, resulting in an astounding 85% reduction in manual tasks, thereby significantly improving operational efficiency.

- Used WCF REST service layer to meet OLP project's distributed applications needs.
- Enhanced cross departmental workflow approval process through web app for quick processing of To-do lists.
- Designed custom reporting system for indicating daily DAQ runs through email and web-client pathways.
- *Technology stack used:* .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.

Multiple Employers, Toronto, Ontario   2013 – 2013
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:** Led designing and implementation of Microsoft Lync messenger extension. Created responsive UI/UX based on Task Parallel Library constructs as well as async and await keywords.
  - Coded C# API layer to the unmatched C++ assembly.
  - Enabled smooth transitions, added animations to app's UI, embedded graphic assets for product's brand representation.
  - Increased fidelity and coding speed for MVVM design pattern by using Visual Studio code snippets.
  - *Technology stack used:* VS2012, .NET 4.5, C#, C++, WPF, MVVM, LINQ, Agile Methodology.

- **Livingston International:** Designed rich client application with the latest WPF/WCF/MVVM technologies and frameworks.
  - Significantly enhanced UI templates by minimizing end users' efforts in app usage.
  - Streamlined tedious and multi-step business processes into single-page, clean designs with smooth transitions and rich tooltips.
  - Reduced time taken in the development of existing data access layer and streamlined data flow to/from backend databases while keeping the application architecture intact.
  - Cleared design imperfections from MS SQL databases.
  - Developed in-house custom tools and sophisticated reports by using Microsoft SSRS.
  - Designed Event Subscription Management system to transform complex entities into single page design.
  - *Technology stack used:* .NET, C#, MS SQL, SSMS, T-SQL, WPF, MVVM, LINQ, Entity Framework, Agile Methodology.

Multiple Employers, Toronto, Ontario   2011 – 2012
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 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.
  - Maintained responsive and alive UI/UX by engaging Task Parallel Library.
  - 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.
  - *Technology stack used:* .NET, C#, WPF, MVVM, LINQ, Entity Framework, SVN, Infragistics, and Agile Methodologies.

- **Global Financial:** Designed various LOB applications, including Electronic RESP Enroller and Mobile RESP Calculator.
  - Created new task tracking tool for project lifecycle management, progress tracking with multi-tasking component, and new UI for executives to view overall project health in one glance with real-time delivery date forecasting feature.
  - Replaced paper-based enrollment process by developing Electronic RESP Enroller for quick and accurate registration of new applicants.
  - Facilitated multi culture support for globalization of MVC applications. Introduced a new tool for automating translation of UI to selected language by use of Microsoft Translator API. Added automated feature for manual error correction by non-developer language experts.
  - Developed Mobile RESP with touch functionality to give the right financial strategy and quick navigation through complex rules and regulations for achieving ultimate business goals.

o Designed new corporate screen saver equipped with several features such as corporate counters, unread email notifications, optional local traffic, and weather gadgets.
o *Technology stack used:* VS2010, .NET 4.0, C#, VB.NET, WPF, Silverlight, WCF, ASP.NET, MVC, HTML5, JavaScript, jQuery, HTML, CSS, JS, MS Access, T-SQL, SSMS, LINQ to SQL, Entity Framework, AJAX, TFS.

Toromont, Toronto, Ontario   2010 – 2011
Full-stack Developer

Improved vast code base of existing corporate applications such as classic ASP and latest advances in dev technologies as well as reinforced with hardcore T-SQL and third-party components. Automated client's local time tracking system by implementing quick entry in application.

- Saved daily 10 man-hours for the entire team by revamping tedious time tracking system and turning it into fun activity that accomplished significant data latency reduction.
- Prepared sophisticated reports with help of Microsoft SSRS.
- Extended intricate and complex classic ASP's codebase, latest ASP.NET applications, and enormous T-SQL scripts with complete precision.
- Advanced existing applications by porting classic ASP apps into ASP.NET 4.0 web form and Silverlight apps.
- *Technology stack used:* VS2010, .NET 4.0, C#, WPF, WCF, Silverlight, RIA, ASP.NET, ASP, jQuery, HTML, CSS, JS, SSRS, SSMS, T-SQL, LINQ to SQL, Entity Framework, AJAX, TFS.

CWB Group, Toronto, Ontario   2009 – 2010
Full-stack Developer

Implemented front-end (WPF) for client's application. Maintained and fixed backend SQL server databases. Assisted digital transformation by shifting legacy apps to the latest platforms. Allowed applications to de-freeze during long SQL queries and server calls by using early Beta bits of TPL.

- Softened current and future codebase impact by implementing numerous unit tests for corporate applications.
- *Technology stack used:* 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