Tony Waterman

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<https://github.com/tonyw54/GeorgeBrown/tree/main>

# Objective

To transfer the skills acquired from 20 years as a successful senior software engineer, business systems analyst and team lead into a new challenge.

# Highlights of Qualifications

* Currently studying AI Application development at George Brown College
* Senior software developer working since 2002
* Expert with several computer languages, including C#, Python, JavaScript and SQL
* Comfortable with both front-end technologies such as Angular and back-end technologies such as SAP
* Certified Business Analyst (ECBA)
* Applied extensive automation to an older BizTalk system at Telus Health, preparing for a conversion to AI
* Lead on Project West, while at D+H
* Lead an overseas team at Navantis
* Mentored many junior developers at Navantis, Datavail and Telus Health

# Education

## Post-graduate Certificate in Applied Ai Solutions development. Expected completion: December 2024. George Brown College

## Post-graduate Certificate in Accounting. July 2022. York university.

## Bachelor of Arts. February 2014. University of Western Ontario.

## Diploma (3 year) Computer Programming and Analysis. December 2003. Seneca College.

**Work Experience**

**Note: Currently attending the full-time AI Application Development program at George Brown College. The expected completion date is April 2025.**

## Senior software engineer

## tELUS HEALTH

## APRIL 2021 – january 2024

Maintained and enhanced the Telus Health customer workflow system. Analyzed and then automated an extensive collection of manual tasks using PowerShell.

* Full stack .Net, SQL and Angular developer
* Maintained a BizTalk system that handled workflows for all Telus Health members, for tasks such as benefits and pension enrolment
* Started developing a Camunda system to replace BizTalk (unfortunately later abandoned)
* Created a suite of PowerShell scripts to automate many previously manual daily tasks
* Investigated errors in the database using an extensive suite of custom SQL scripts
* Team lead on a security project to update insecure web service endpoints, originally created as plain HTTP

## software developer/bUSINESS aNALYST

## datavail

## August 2018 – january 2021

## Enhanced and supported several applications for different clients. These included Hydro One, Morguard, Human Resources Development Canada and Sustainable Development Technology Canada.

* JSON-enabled the logging function on the Hydro One site which allowed support staff to triage production issues easier and faster and created better automated monitoring.
* AODA remediation for several client websites, including making the morguard.com website 100% compliant and working towards making the Hydro One website compliant. Used achecker.ca and the w3c compliance webservices in this task.
* Elicited requirements for and designed the solution for the new machine learning Natural Language search function on the Hydro One website, provided by wysdom.com
* Elicited requirements for SAP changes to be done in how the Hydro One website processes customer phone number information at a site and SAP-wide level. Created business analytic documentation describing the new changes. Also developed some of the code for this project.
* Part of the team that upgraded the Hydro One website from angularjs to angular 7. Had begun to plan the process for upgrading again to Angular 11 but was laid off due to pandemic-related business issues.
* Created a new Power Automate application for HRDC to handle webinar registration. Integrated the application with SharePoint online and Outlook.
* Ported the jobready.hrpa.ca website from PHP on Heroku to a local IIS application
* Created RESTful webservices to connect Hydro One’s SAP and Tivoli back ends to the Microsoft Azure hosted HydroOne.com website

## PROGRAMMER (contract)

## QUAD INFOTECH

## March 2018 – AUGUST 2018

* Developed web sites for the steel manufacturing industry.
* Technologies included .Net (C# and VB.Net), Angular, Oracle and Java

## Senior software developer (contract)

## CLIMAX Media

## October 2017 – december 2017

* Maintained and improved various Honda Canada web sites
* The sites were based on Angular, ReactJS and MVC.Net (C#) with SQL Server backends

## Senior software developer

## Navantis

## December 2013 – October 2017

* Developed applications in CRM, ASP.NET, AngularJS, .NET MVC, SQL Server, JavaScript
* Worked on the front end of a new public facing website for HydroOne: <https://www.hydroone.com/>. This used a C# based middleware layer to connect to an SAP backend. The front end was done largely with AngularJS.
* Spent several years maintaining and enhancing the Famous Agent’s website for Fairmont Hotels: <https://famousagents.frhi.com/>.
* Developed CRM plugins and modified the website for Sustainable Technology Development Canada: <https://www.sdtc.ca/en>.
* Worked on the Ontario College Application Service websites. This communicated using Azure relays with the students, while BizTalk was used to connect with the colleges themselves.
* Developed the Azure deployment process for an internal Microsoft website. The site used MVC and CRM Online to book employee events. The site’s code was hosted in the Navantis TFS system. I designed a way to check the code out of TFS, compile an Azure deployment package, and deploy the latest version of the code to Azure using a dedicated deployment server and a suite of customer Azure PowerShell scripts.

## Senior software developer

## D+H

## February 2013 – October 2013

Davis and Henderson are the main Check processor used by all major Canadian Banks. As part of their drive to expand outside this core business they created an identity theft protection system which banks could resell to their own customers. The solution was written in C# 4.5 (ASP.Net MVC), with a SQL Server 2008 back end.

* Lead on Project West: D+H's new Identity Theft Protection system
* Took over maintenance and development on several existing D+H applications
* Set up Team Foundation Server using ALM for Project West
* Performed formal code reviews of vendor’s C# and database code
* Wrote SQL data import scripts and the SQL Server Integration Services packages
* Performed scrubbing and analysis of highly sensitive, business-critical data

## software developer/consultant

## CGI

## OCtober 2005 – OCTOBER 2012

* Helped clients develop new systems and enhancements to new systems, principally using Microsoft technologies such as ASP.NET, SQL Server and Azure
* Clients included Manulife, CIBC, the Alberta government, Bridgestone and Americo Insurance.
* For Manulife I worked in various technical support roles from “lights on” support to more difficult client queries, as well as some green field development. The systems were built in C# (ASP.Net) with, generally, mainframe or SQL Server backends, often with custom SSRS reports as well. Also wrote several Python scripts to automate part of my job.
* At CIBC I acted as Project Point Prime for the telephone banking team, acting largely as a quarterback to get large code changes through the CIBC bureaucracy. Also acted as a developer for a project to upgrade the telephone banking system from .Net 2.0 to .Net 4.0.
* Created the cloud architecture for the banking and insurance site hosted on Azure at <http://www.cibcinsurance.com>
* With the Alberta government, I acted as team lead for the Industry Training and Tracking System project, which allowed tradespeople in Alberta to track their certifications