Nathan Jervis | Resume

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Education

McMaster University **Hamilton**
Bachelor of Applied Science (B.A.Sc.), Computer Science, In Progress *2012–2017*
Received 12/12 in all Computer Science courses so far

Udacity **Online**
Online Courses, 3 courses *2011-2012*
ST101-Stats (highest distinction) ,CS212-Design of Computer Programs, CS262-Programming Languages

Westmount Secondary School **Hamilton**
High school Diploma *2007-2012*
ICS4U (Software): 98%, TEJ4M (Hardware): 95%. Helped set up and run computer science club.

Frequently Used Languages

C#: 5 years of experience — *Also studied .NET assembly to better understand the language*

SQL: 2 years of experience — *Also work extensively with LINQ*

Javascript: 1 year of experience — *Familiar with AngularJS as well*

Haskell: 1 year of experience — *Built a Domain Specific Language within Haskell*

Experience

Contract Work

NVC Software (formerly Eldidip Media) **Hamilton**
Software development consultant *July 2011–Present*
Contract Jobs

- Software Architect for Pastee
  - HTTP based web API developed
  - Mobile application built to query API and interact with system clipboard
  - Deployed systems to Windows Azure and Amazon Web Services
- Software Architect for CampusHelper
  - Designed and built database for storing student information
  - Built website for student interaction and deployed to VPS on HostGator
- 6 months with ResonateKT
  - Building test cases for WebReports system (an extension to Open Text Content Server)
  - Development of new commands within WebReport language
- Mobile Applications for Education for McMaster University (Dr Anand)
  - Find and fix bugs within existing iOS applications
  - Develop ideas for new applications

Professional

Quickee Inc **Hamilton**
Lead Software Architect *March 2013–Present*
Design, architect and create entire Quickee system, including client, server and database

- **Responsibilities:**
  - Gather system requirements and design database structure
  - Design an interface for the mobile application to communicate with the server
  - Evaluate solutions for mobile applications, and decide on technologies
  - Build a mobile application to facilitate ordering specials from local restaurants
  - Build a server that will scale very easily, and allow for future changes
- **Main Technologies Used:**
  - C#
  - ASP.NET
  - Azure Cloud Services
  - HTML\CSS
  - Javascript\JQuery
  - Phonegap
  - LINQ\SQL
- **Accomplishments:**
  - Built cron job scheduler to work on Azure Worker Roles, and execute .NET functions
  - Built tool to compress javascript, compile less code, zip code into package, and upload package to `http://build.phonegap.com` to build mobile apps

Population Health Research Institute **Hamilton**
Software Solutions Developer *February 2012–December 2012*
Develop clinical trial management systems.

- **Responsibilities:**
  - Develop websites and design databases
  - Diagnose and fix bugs, documenting solutions using TFS
  - Follow specification to create validated systems that comply to the user's needs
  - Create reports and database views
  - Help get new students get started at the work place
- **Main Technologies Used:**
  - C#
  - ExtJS
  - LINQ\SQL
  - ASP.NET
  - TFS
  - RDL/RDLC
- **Accomplishments:**
  - Main developer for several projects including SAHARA clinical trial
  - Built public website for assessing heart risk score `https://rome.phri.ca/interheartriskscore`
  - Found security flaws, such as SQL injections, fixed flaws and led redeployment of project
  - Assessed new technologies and alternatives to existing systems (such as mobile and SMS service)

Technologies Familiar with

OOP Languages: C#, C++, Java

Web Languages: HTML, Javascript, ExtJS

Assembly Languages: MASM, .NET ILASM

Other Languages: Haskell, Prolog

Source Control Systems: Team Foundation Server, Github

Server Tools: ASP.NET, PHP, SQL, Azure, AWS

Reporting tools: LaTeX, Markdown, RDL/RDLC, WebReports

OS: Windows (XP - 8), Mac OS X, Ubuntu, Debian, Android, iOS, WP7

Development Tools: Visual Studio (2005-2012), Notepad++, command prompt

Volunteer Work

Computing and Software Outreach Group: Part of a group meant to try to get elementary and high school students interested in computer science

Mobile Development Club: Created and run a group to learn how to program for mobile applications and release a video game

City of Hamilton Web Redevelopment Focus Group: Provided input for the City of Hamilton as to which web technology they should use, and how the website should be designed

Open Source Software Projects

Codeplex profile: `http://www.codeplex.com/site/users/view/mirhagk`

- **Open Song to Chord Pro Converter** - A simple program to convert songs stored in the Open Song format to the Chord Pro format, also made it to softpedia `http://www.softpedia.com/get/Multimedia/Audio/Other-AUDIO-Tools/Open-Song-To-Chord-Pro-Converter.shtml`
- **Matrix Reducer for Linear Systems** - A program to input a matrix for a linear system, and it will reduce it to Reduced Row Echelon Form, and output a LaTeXfile showing the steps it used to get there, along with what the matrix looks like during each step

Awards

Startup Weekend Hamilton: 2^{nd} place 2013, best execution of idea, only functioning app

IEEE McMaster Programming Contest: 1^{st} place 2013

Education Computing Organization of Ontario programming contest: 3^{rd} place Finals 2011, Regionals 2010

Canadian Computing Competition: $62^{nd}/604$

Google Code Jam: Made it to 3^{rd} round, placed 920^{th} out of 4200

CISCO IT Essentials: Certified

Royal Canadian Mint: Participated in competition to design software for next generation money

Interests

Programming Language Design: the syntax of programming languages, how they are interpreted, and creating new languages

Artificial Intelligence: how computer algorithms can replicate human intelligence, and also learn from situations

Productivity Tools: tools created to assist programmers, or others, with doing menial tasks, freeing up effort to focus on more important matters

Automating Processes: systems built to completely automate certain processes, freeing up humans for more important or safer tasks, ie vending machines, self-check out systems, and dangerous items disposal

References Available Upon Request