

Michael Gircys

EDUCATION

MSC. COMPUTER SCIENCE

BROCK UNIVERSITY
St. Catharines, ON
Conferred June 2018

BSC. COMPUTER SCIENCE

BROCK UNIVERSITY
St. Catharines, ON
Conferred June 2015
Honours, First Class

ONLINE

Homepage:// gircysm.me
LinkedIn:// gircysm
Code:// mg12vp

COURSEWORK

GRADUATE

Machine Learning
Genetic Programming

Audited:

Advanced Neural Networks

UNDERGRADUATE

Artificial Intelligence
Advanced Algorithms
Robotics

SKILLS

LANGUAGES

Over 10K lines:

Java • C# • SQL • VB.NET

Over 2K lines:

MATLAB • Javascript • C++

Familiar:

R • C • Scheme • Python

FRAMEWORKS

ASP.Net • MVC • WCF

Android • TensorFlow

WEKA • Azure Learning

PERSISTENCE

SQL Server • MySQL • SQLite

MongoDB • XML • JSON

ENVIRONMENT

SVN • TFS • IIS • Apache

Visual Studio • Eclipse • Bash

RESEARCH

BROCK UNIVERSITY | STUDENT INVESTIGATOR

May 2016 – June 2018 | St. Catharines, ON

With assistance from Dr. Brian Ross, investigated and formed computational models for measuring and guiding spatial similarity using signal processing techniques in new images produced through evolutionary systems. Developed systems using Java, MATLAB, and C++, leveraging concurrent processing to improve performance of distributed scientific computing. Publication submitted.

EXPERIENCE

BROCK UNIVERSITY | GRADUATE TA

DEMONSTRATOR, MARKER, COORDINATOR

Sep 2016 – May 2017 (Part-Time) | St. Catharines, ON

Guided supplemental lessons and aided students in data structure usage, relational database schema and queries, relational modelling, and modern web development.

BROCK UNIVERSITY | APPLICATION DEVELOPER

Jun 2014 – Sep 2016 | St. Catharines, ON

Engaged with other developers, clients, and business analysts to design and implement new features for ASP.NET and VB.NET web applications. Wrote and profiled SQL schema and T-SQL stored procedures to provide business analytics. Maintained and modernized undocumented legacy systems.

- Analyzed course registration systems and developed time-saving improvements to workflow in ASP.NET (.NET Framework 3.5, 4.5).
- Worked as lead developer to remove dependence on a legacy system, and integrate with Workday financial systems. Created synchronization frameworks, hooks, and WCF web service query modules with T-SQL and C#.

FREELANCE | MOBILE APPLICATION DEVELOPER

Apr 2014 – Apr 2015 (Part-Time) | St. Catharines, ON

Independently developed Android applications with the Android SDK in Java to facilitate data collection and processing on handheld devices for medical research studies. Managed integration and licensing of third-party services to create scalable storage for reporting of large data-sets.

- Researched Android OS implementation to develop features using otherwise unavailable internal data services.

2100 COMPUTER LANE | APPLICATION DEVELOPER

May 2013 – Jul 2014 (Part-Time) | Vineland, ON

Worked independently on PHP, Java, and C# WPF Projects.

- Improved workflow by modifying image archival tools to interface with cameras over WIA protocol and automatically associate with clients from barcode input.

UNIVERSITY OF WATERLOO | SYSTEMS SOFTWARE DEVELOPER

Jan 2012 – Aug 2012 | Waterloo, ON

Developed and maintained web systems with C# and ASP.NET MVC. Analyzed, designed, and implemented database schema for systems in SQL Server.

- Created an LDAP interface for SharePoint 2010 using Silverlight.
- Developed a C# library to export dependency graph images with item regions.

UNIVERSITY OF WATERLOO | SYSTEMS ANALYST

2009 – 2011 (Coop) | Waterloo, ON

Monitored and maintained production and development computer systems using Azure and Microsoft System Center. Mediated requirement discovery with clients.

- Configured load balancing equipment to mitigate additional server requisitions.