

Drew Matheson

Kitchener, ON, Canada

drew.a.matheson@gmail.com

Qualifications

- Produce single-page applications using ASP.NET MVC, ASP.NET Web API 2, AngularJS, and MongoDB
- Experience programming in a multitude of languages and frameworks including C#, ASP.NET MVC, JavaScript, HTML, CSS, Java, Objective-C / iOS, and Python
- Use frameworks including jQuery, AngularJS, SAP UI5, Entity Framework, Twitter Bootstrap, and Zurb Foundation to maximize time spent working on new issues rather than ones that have been solved
- Enhance code quality by developing and implementing automated unit tests using the NUnit and Moq frameworks in .NET and JUnit in Java
- Utilize relational databases such as MySQL, SQL Server, SQL Anywhere, and Oracle 12c, and document-oriented databases such as MongoDB
- Experience with SQL including DML, DDL, transactions, stored procedures, and triggers
- Implement object oriented programming principles to increase code testability, modularity, and reusability
- Analyze and outline the requirements, domain classes, and system diagrams for a case study
- Familiar with software analysis CASE tools and prototype UIs
- Employ source control software via Git/GitHub and Perforce
- Worked in a team of five tasked with creating an e-commerce website using ASP.NET MVC, SQL Server, Stripe, and SendGrid
- Comfortable with Linux and command line environments
- Utilize Docker to automate software deployment and setup while also eliminating software environment variability
- Helped classmates grasp, implement, or fix various concepts and issues throughout the all semesters
- Achieved a GPA of 4.0 by employing effective time management to stay at least one week ahead of assignments and course material

Education

Computer Programmer / Analyst (Co-op) Program

2013 – 2016

Conestoga College, Kitchener, ON

- 4.0 out of 4.0 GPA; 97% overall average

Experience

Board Game Scoring Single-Page Application

2014 – 2015

- Learned AngularJS from scratch and utilized AJAX services to retrieve from and save to an ASP.NET Web API 2 back end
- Implemented the Unit of Work pattern and dependency injection for MongoDB database interactions to insulate the web API and enable unit testing
- Developed unit tests using stub repositories for everything but data access classes, and test databases for integration testing of data access classes

Software Application Developer – SAP

May – Aug 2015

- Worked as part of a multidiscipline design/development team to realise a POC iPad app which integrated with a DNA identification machine and used the camera to scan badges and barcodes
- Designed and implemented an occasionally connected database solution for the POC app using an Ultralite database on the iPad and an SQL Anywhere consolidated database with syncing accomplished via MobiLink
- Researched Data Distribution Service, a real-time Publisher/Subscriber network middleware, and gave a 35 minute knowledge sharing presentation

Software Application Developer – SAP

Jan – Apr 2016

- Implemented data-driven IoT data streaming and processing system utilizing SAP Streaming Lite and SQL Anywhere
- Implemented master/detail flow for sensor detail management using SAP UI5
- Utilized Docker to improve software deployment and setup

Awards

- Computer Programmer / Analyst Year 1 Achievement Award, awarded for having the highest first term marks in the Computer Programmer / Analyst program 2014
- MERAK Systems Award, awarded for having the highest marks in the Java Web Technologies course 2015
- Dean's Honours List, awarded for attaining an average of 80% or greater while having no course mark less than 70% and no failed courses in the year 2014, 2015

Activities and Interests

- Creating applications that automate or simplify problems and annoyances
- Trying out popular programming technologies to see how they can be applied
- Recreational bicycling