

Drew Matheson

Kitchener, ON, Canada

drew.a.matheson@gmail.com

Qualifications

- Design and implement RESTful APIs following best practices
- Secure RESTful APIs with proper authentication, authorization, validation, sanitization, and cross-site request forgery prevention
- Breakdown high level feature requests into requirements and individual tasks
- Architect and implement large and/or cross-cutting features
- Enhance code quality by advocating and implementing automated unit tests
- Experience programming in a multitude of languages including Java, JavaScript, HTML, CSS, C#, Objective-C (iOS), and Python
- Utilize relational databases such as MySQL, SQL Server, SQL Anywhere, and Oracle 12c
- Experience with SQL including DML, DDL, transactions, stored procedures, triggers, and schema migrations
- Implement object oriented programming principles to increase code testability, modularity, and reusability
- Define and follow standards and procedures and enforce them via code reviews
- Experience with Git, GitHub, and Perforce
- Experience working in an agile development environment
- Utilize existing frameworks and open source components to maximize time spent working on new issues rather than those that have been solved
- Full stack development of single-page applications using JAX-RS, AngularJS, SQL Server, SAP UI5, and SQL Anywhere
- Comfortable with Linux and command line environments

Experience

Developer – SAP

Aug 2016 – Present

- Developing core components of SAP Dynamic Edge Processing and SAP Edge Services, two streaming-based IoT edge computing products
- Identifying and documenting pertinent and high priority issues found via automated code scanning tools and manual code reviews
- Maintaining and streamlining build configuration to enable easy simultaneous development and release of two products with significant shared code (SQL, Web UI, Java, Python)
- Assisting others with and sharing knowledge about the products, feeding resulting insights and requirements into the product backlog

- Responsible for ensuring readiness of source code, source control, and builds for multiple releases of multiple standard products
- Advocated for and lead the transition to a Git Pull Request development model
- Lead port of Linux-only product onto Windows, simultaneously creating a Python-based cross platform installation process
- Architected transition of existing Node.js-based REST APIs to Java (Jetty/JAX-RS) and performed the majority of the conversion
- Responsible for implementing a database-wide primary key strategy change which effected the every layer of the system

Software Developer – SAP

Jan – Apr 2016

- Implemented a fully functional, dynamically configurable IoT data streaming and processing system POC, which was eventually productized, utilizing SAP Streaming Lite and SQL Anywhere
- Investigated and utilized Docker to speed up deployment and reduce variability

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, used the camera to scan badges and barcodes, and supported occasional connectivity

Education**Computer Programmer / Analyst (Co-op) Program**

2013 – 2016

Conestoga College, Kitchener, ON

- Graduated on the President's Honour List with High Distinction

Awards

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| • Recognized via an internal SAP award as being considered key to the success of the team/company | 2017 |
| • President's Honour List, awarded for having the highest marks in the program and a minimum of 90% average for all courses | 2016 |
| • MERAK Systems Award, awarded for having the highest marks in the Java Web Technologies course | 2015 |
| • Computer Programmer Analyst Year 1 Achievement Award, awarded for having the highest first term marks in the program | 2014 |

Activities and Interests

- Creating tools that automate or simplify problems and annoyances
- Researching and trying out popular programming technologies to see how they can be applied
- Board and video games
- Recreational bicycling