

Gillian Maducdoc

3B Software Engineering

📞 416.464.7153

✉ gmaducdoc@gmail.com

🌐 gillianmaducdoc

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QUALIFICATIONS

- Professional experience with Java, Ruby, Swift, Objective-C, Rails, Docker, and iOS development.
- Practical experience with software methodologies such as OOP, MVC, multi-paradigm, and functional programming.
- Proficiency with C++, C#, C and Python established from projects and courses.
- Working knowledge of SQL, Perl, PHP, and Javascript.
- Experience developing on Windows, Unix, and Linux operating systems.

EXPERIENCE

Snowflake Computing, Services & Security Team

San Mateo, CA, May 2017 - Aug 2017

- Lead the research and software design of a working solution to integrate OAuth 2.0 protocol into Snowflake architecture according to the IETF specification.
- Sole developer in implementing the OAuth 2.0 service into the Snowflake Data Warehouse product in Java.
- Implemented a test web server simulating as a third-party client end-to-end OAuth 2.0 flow in Python.
- Refactored login session workflow to improve efficiency of locking users out of transactions.

Grand Rounds, Infrastructure Team

San Francisco, CA, Aug 2016 - Dec 2016

- Identified and remedied various security vulnerabilities within the product, including cross site scripting (XSS), cross site request forgery (CSRF), and SQL injection.
- Investigated, researched, and designed a solution for a defence against automated attacks.
- Automated the seeding of product data and workflows into internal continuous development environment in Ruby.
- Improved Docker based continuous integration (CI) system by adding functionality for running integration tests and adding front-end features.
- Collaborating with and adapting to a constantly changing team, working daily with Pivotal Tracker and GitHub.

Osellus Mobile, iOS Developer

Toronto, ON, Jan 2016 - Apr 2016

- Developed an interpreter (scanner, tokenizer, parser, abstract tree maker) in Swift for company's independent language.
- Refactored multiple code files and classes originally developed in Objective-C code into Swift.
- Designed and performed end-to-end development of a fully functional proof of concept AppleTV prototype app.
- Implemented new features and resolved various issues in projects, in both Objective-C and Swift.

Siemens Canada, Research and Development Team

Vaughan, ON, May 2015 - Aug 2015

- Developed user privileged SSH client for remote error logging of network switches in Java.
- Implemented test scripts in Perl and maintained test networks for quality assurance releases.
- Developed web pages using HTML, CSS, and PHP.
- Knowledge of networking protocols established through testing of networking devices.

PROJECTS

DJ Leap

Hack the North, Sept 2015

- Built a motion sensing virtual DJ mixing application targeted towards casual music enthusiasts.
- Implemented in C++ with motion sensing technology, LEAP Motion.

Myo Armband Stress (Less)

EngHack, Nov 2014

- Developed a desktop destroyer application controlled by user's hand gestures and arm movements.
- Implemented with Myo, Thalmic Labs' gesture control armband, using C++.
- Won 'Top Myo Hack' at Waterloo's EngHack 2014 Hackathon.

EDUCATION

University of Waterloo

Relevant Courses:

- *Operating Systems*: Application of fundamentals such as concurrency, memory management, threads, and processes.
- *Foundations of Compilers*: Implemented each part of a fully functional compiler for a subset language of C++.
- *Concurrency and Parallelism: Application of principles; implementation and debugging of concurrent programs*
- *Database Management*: Foundations of database management, database design methodology, use of DBMS, drivers, interfaces, data mining and data warehouses.
- *Data Structures and Data Management*: Analysis, application, and uses of data-management techniques and data structures such as hashes, trees and queues.