

Skyler Layne

46 Brentwood Drive • Brampton ON, L6T 1P9 • (289) 716-8485
skylerclayne@gmail.com • <http://skylerlayne.me>

Objective

To utilize my knowledge and experience in Software Engineering in order to provide unique solutions to challenging problems that further both myself, and your company.

Education

B. Eng., Spec. Hons. Software Engineering

York University, Lassonde School of Engineering
Toronto, ON

Sep. 2012 - Apr. 2016

- First student to graduate from the Software Engineering program at York University.
- Student representative for York University's (Camp 1) Iron Ring Ceremony March 2016.

Virtual Reality Application Focused on Low Mobility Users

4th Year Capstone Project (ENG 4000) - Midterm Grade: A

Sep. 2015 - Apr. 2016

- Worked as part of a team to create a virtual reality food garden to allow low mobility users to have an immersive gardening experience while learning about climate change resiliency, food security, and healthy food choices.
- Applied the Agile Development methodology with weekly SCRUM meetings to allow for the iterative development of prototypes, and verified quality assurance.
- Utilized Requirements Engineering to create a specification with consideration given to the capabilities of end users. Researched virtual reality hardware options, game editors, and prepared numerous professional reports totalling over 20 pages with an average grade of A.
- Contributed extensive programming knowledge of C#, JavaScript, and Object-Oriented Design to create re-usable generic components to allow more plant models to easily be added later. Designed and implemented all player actions, including planting, watering/fertilizing, and removing fauna.
- Created working demos on Windows, OS X and Android, all with controller support.

eCommerce Book Store Application

Mom And Pop Books - Grade Received: TBA

Feb. - Apr. 2016

- Worked as part of a team to create a Java ecommerce web application for an online book store where users can purchase books, administrators can run reports, and business partners can communicate with the service via *SOAP*.
- Using a *Tomcat* server and *MySQL* as a database, using *Docker* compose for deployment/testing.
- Using *git* and *GitHub* for source code management and *Maven* for building the project.
- Tested using Test driven development with the *JUnit* testing framework, *Cobertura* for code coverage metrics, and *CheckStyle* for a strict style guide.

Covert ASCII guitar tabs into Pretty Sheet Music PDFs

Tab2PDF - Grade Received: B+

Jan. - Apr. 2014

- Worked as part of a team to create a Java Swing application to convert a text file containing ACSII guitar tabs into pretty PDF documents.
- Used *git* for source code management.
- Written in 11,000 Lines of Java.
- Using *Java Swing* and the *iText framework*.
- Tested using Test driven development with the *JUnit* testing framework.

Projects

Ruby on Rails Blog/Portfolio Web Application The Gypsy Corner

Summer 2015

- Designed and implemented, from the ground up, a blogging and artwork showcase (portfolio) platform for a community member.
- Consists of about 3,000 lines of code. Using *ERB* for templating, *rspec* for testing, and *yaml* for testing fixtures.
- Used a *Postgres* database in production, and *MySQL* for development.
- Used *git* for source code management, deployed in production on *Heroku* using an Amazon S3 bucket for image storage.
- Designed the layouts using *Sketch 3*.

Experience

Business Operations Assistant

May 2014 - Ongoing

- Provide technical support for the Faculty of Liberal Arts and Professional Studies.
- Assist in managing, both physically and digitally, the computing inventory for York University's largest department, including both faculty and staff.
- Redesigned the Course Evaluation used by the entire Liberal Arts and Professional Studies department.

Technical Proficiencies

Languages	Java (JDK8, Applets and Applications, Java Swing, JSP), Ruby, Bash, MySQL, PVS
Web Technologies	HTML, CSS/SASS, Javascript (Node, jQuery, AJAX)
Operating systems	Linux (Debian), Mac OS X, Windows
Productivity Tools	Rspec, Git, Vim, Atom, Eclipse Mars (Luna), Maven, JUnit, EclEmma
Software Engineering Skills	Object-Oriented Methodologies, Design Patterns, Test Driven Development, Defensive Programming, UML Modeling, Safety Critical Systems, Requirements Engineering.