

SOKHOUNTEA SY

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EDUCATION

McGill University

September 2017 to 2021

B.A. Major in Computer Science, minor in Mathematics and Economics

Relevant Courses: Algorithms and Data Structures, Programming Languages and Paradigms, Software Design, Operating Systems, Discrete Structures, Linear Algebra, Fundamentals of Computer Graphics (F2020), Principles of Web Development (F2020), Database Systems (W2021)

SKILLS

PROGRAMMING/SCRIPTING LANGUAGES:

Java (3 years) | **C** (3 years) | **HTML** (1 year) | **CSS** (1 year) | **JavaScript** (1 year) | **Python** (6 months) | **Swift** (5 months) | **PHP** (2 month) | **SQL** (2 month)

FRAMEWORK/TOOLS:

IntelliJ IDEA | **Eclipse** | **Git** | **Visual Studio Code** | **JUnit** | **Adobe Photoshop CS** | **Microsoft Office** | **OpenGL** | **XCode** | **jQuery** | **ReactJS** | **AJAX**

LANGUAGES:

English (Fluent), French (Fluent)

PERSONAL PROJECTS

Water Application

Summer 2020 - Present

Developed an IOS application in Swift using XCode. Graphics are designed using Adobe Photoshop CS. The application registers the user's weight and daily activity level, and keeps track of the amount of water consumed per day, and graphics in the application change according to the amount.

Tic Tac Toe Game

June 2020

Developed and designed a web page that generates a board game with the same concept as Tic Tac Toe, in HTML, CSS, JS and jQuery. Two users are able to play against one another. The board has three available dimensions: 3x3, 4x4 and 5x5.

ACADEMIC PROJECTS

Articulated Character with Transformations

September 2020

For the course Fundamentals of Computer Graphics, through the use of hierarchy transformations, I built an articulated character, using Java and OpenGL. I implemented a basic matrix stack and various kinds of joints, such as a single axis rotary joint and 3 axis spherical joint. I also implemented GLSL lighting with 3 light directions.

Simple File System

November 2019

For the course Operating Systems, I designed and implemented a simple file system that can be mounted by the user under a directory in the user's machine, using C. It is a file system that works in Linux. Also mountable through FUSE.

Tiny Shell

September 2019

For the course Operating Systems, I developed a tiny shell using C. It has very minimal functionality. Implemented several internal commands, e.g. chdir and history, and handled SIGNINT and SIGTSTP signals differently.

WORK EXPERIENCE

PF Chang's - Back Waiter

November 2018 - September 2019

- Worked in teams and divided the tasks wisely to maintain high standards of customer service during fast-paced operations

McDonald's - Guest Experience Lead

July 2017 - October 2018

- Used strong verbal communication skills to introduce and explain the functioning of kiosks and provide excellent customer service
- Used a strong ability of multi-tasking in a fast-paced environment to shorten the waiting time of the customers
- Handled customers complaints and queries about food and the service