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Skills___

Proficient C/C++, C#, Python, HTML / CSS, PHP, SQL

Familiar Java, JavaScript, Android, LAMP Stack, Perl, Matlab, Arduino

Tools Unix/Linux, GDB, Git/Mercurial, Jira, Apache

Experience _____

Software Development Intern

Markham, ON

GENESYS LABORATORIES May - August 2017

- Developed a backend interface to encapsulate audio in a media container for recording and playback over Chrome and Firefox in **C++**.
- Implemented unit tests for audio encapsulation with Google Test on Linux and Windows.
- Wrote **XML** scripts to simulate user-agent scenarios with SIP protocol over the media server.
- Programmed and tested features for the web-based Real-Time Communications (RTC) system.
- Performed and underwent code reviews to ensure a consistently high quality of code.

ECOO Programming Contest

Toronto, ON

REGIONAL QUALIFIER X 2

Feb 2016/2015

- Finished as **semi-finalists** across Ontario in 2015 and 2016.
- Solved problems by implementing **Search, Sort, and Pathfinding** algorithms in **C++**, **Python**, and **C#**.
- Applied **dynamic programming** to optimize solutions and satisfy runtime constraints.

Projects_

Student Database Management System

JAVASCRIPT, PHP, MYSQL, HTML / CSS, LAMP STACK, APACHE

- Implemented a login-authenticated database to manage student records using LAMP Stack.
- Developed web interface using **JavaScript** and **HTML / CSS**, with database integration via **MySQL** and **Apache**.
- Designed robust input sanitation for text-fields using error-handlers and regular expressions in PHP.

SketchIt! - 2D Printer

C/C++

- Programmed a printer to reproduce sketches from a set of 25+ points on a brick microcomputer.
- Developed a graphical interface for plotting points through keyboard and mouse input in C++.
- Coded the calibration and 3-axial operation of the printer in **C**.

Classifier

PYTHON

- Implemented a Support Vector Machine in **Python** to identify employees who may have committed fraud based on financial and email datasets.
- Tuned classification algorithm to achieve 85% accuracy on a dataset of 14,000+ employee profiles.

QuickConnect App

ANDROID

- Developed an Android App to securely and effortlessly connect with peers on social media using NFC.
- Leveraged Facebook, Snapchat and Instagram APIs to share social invites and messages.

Education ____

University of Waterloo

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE, 3.9 cGPA

DSE200X (Online) - Python for Data Science, edX UD120 (Online) - Intro to Machine Learning, Udacity

Sep. 2016 - Exp. May 2021