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Skills___

Proficient C/C++, Python, C#, HTML / CSS, PHP, SQL **Familiar** Java, JavaScript, Android, Perl, LAMP Stack

Technologies Unix/Linux, GDB, Git/Mercurial, Jira

Experience _____

Software Development Intern

Markham, ON

May - August 2017

• Developed a media interface for audio 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

Feb 2016/2015

REGIONAL QUALIFIER X 2

GENESYS LABORATORIES

- Semi-finalists across Ontario, 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 effortlessly connect with peers on social media using NFC
- Leveraged Facebook API to share social invites and messages

Education ____

University of Waterloo

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE, 3.9 cGPA

PYTHON FOR DATA SCIENCE (DSE200X), EDX

INTRO TO MACHINE LEARNING (UD120), UDACITY

Sep. 2016 - Exp. May 2021