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Skills

LANGUAGE

Go

VBScript

JavaScript

SOL

CSS

Java

C++

С

Scala

FRAMEWORK & LIBRARY

ASP

JQuery

Node.js

Sass

Bootstrap

Jekyll

DATABASE

Microsoft SQL Server PostgreSQL

OTHER

Git

IIS Bash

Heroku

UML

Education

University of Waterloo Software Engineering 92.3% · 3.92 CGPA Dean's Honor List

Work Experience

Ivy Global · Software Engineer

- Implemented a personalized study plan feature which determined a student's weakness, strength, and performance relative to the general population in terms of multiple areas by analyzing over 7 million student question responses
- Created an automatic essay grading and feedback tool utilizing **Machine Learning** as well as **Natural Language Processing** algorithms and researches
- Designed, implemented, and maintained an online test-taking tool and editing tool entirely from scratch
- Developed a central login system utilizing **OAuth 2.0** which is compatible across all lvy Global services and apps
- Managed and trained a team of engineers with the development and maintenance of existing projects
- Prepared and carried out presentations about designs and projects to management and potential investors

Awards

Bronze Medalist · Canadian Computing Olympiad

May 2015

Toronto, Canada · Feb 2016 - Present

Competed in prestigious algorithm competition for the Top 20 high school students in Canada

Top 20 · Canadian Computing Competition (Senior)

Feb 2015

Across all high school students in Canada

First Place (Perfect Score) · Canadian Computing Competition (Junior) Feb 2014 Across all high school students in Canada

Projects

GoGoGo

Jul 2016 - Present

- An online multiplayer implementation of the ancient board game Go, written in Go and React.js
- · Implemented move validation and processing algorithms for the game
- Created unit tests for the server using Go's Testing package

WatProduct

Jan 2016 - Present

• A website built with **Node.js**, express, and jade, which uses the Watson news and language analytics API to calculate popularity and reception of products

Tetromino Simulator

Oct 2015 - Dec 2015

- Tetris game developed using Processing, a variation of Java, controlled using the Launchpad microcontroller
- Developed a serial communication protocol between the computer and the microcontroller
- Implemented Tetris graphics and game logics in modular and maintainable ways

Mayo

Oct 2015 - Dec 2015

 Gesture-controlled painting software developed in Java using the Myo armband and its library

Oniregnod Adventure

Nov 2014 - Jan 2015

- 2D turn-based strategy game developed using Java and Lightweight Java Game Library
- Implemented an AI system using concepts from game thoeries, such as Minimax
- Designed UML diagram using object-oriented design principles