# Bill DuGe

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## EDUCATION

**UNIVERSITY OF WATERLOO**
BCS, COMPUTER SCIENCE
CO-OP PROGRAM
3.94 FACULTY GPA
September 2018 - Present
Waterloo, Ontario

RELEVANT COURSES
- Object Oriented Software Development
- Algorithm Design and Data Abstraction
- Functional Programming
- Logic and Computation
- Probability

## SKILLS

**LANGUAGES**
Python • JavaScript • C++ • C • Java • Bash • HTML CSS • SQL • Racket

**TECHNOLOGIES**
React • NodeJS • Express • Django • MongoDB MySQL • jQuery • Git • Electron • Bootstrap Google Cloud • Selenium

## AWARDS

- UW Dean's Honours List
- UofTHacks VI Top 10 Project
- High School Class Valedictorian
- UW President's Scholarship of Distinction
- UW Math Entrance Scholarship
- Duke of Edinburgh's Bronze Award
- UW Cayley Math Contest Honour Roll (Top 0.8%)

## EXPERIENCE

**YOUREKA CANADA**
SOFTWARE DEVELOPER
November 2019 – Present
- Developed web application with Django to organize the submission and evaluation of applicants, increasing the efficiency of application processing by 50%
- Acting as technical consultant in meetings with organization executives to identify target areas which can be improved through software solutions

**CONNECTED**
QA AUTOMATION DEVELOPER, INTERN
May 2019 – August 2019
- Spearheaded creation of command line framework to automate submissions to the cloud platform TestRail, decreasing time for smoke and regression test suites by 40%
- Built electron application to automate voice testing Alexa skills, allowing developers to easily create test cases and visualize conversations with Alexa

**UNIVERSITY OF WATERLOO ROBOTICS TEAM**
SOFTWARE DEVELOPER
October 2018 - April 2019
- Developed software for a Mars rover to compete in the University Rover Challenge
- Created GUI for the rover's control interface that displays real time input from an XBOX 360 controller using ROS and C++, providing a seamless interface for drivers

## PROJECTS

**STYLIST.AI** | DJANGO, JAVA, MYSQL, GOOGLE CLOUD, TENSORFLOW
github.com/SamYu/stylist.ai
- Android application which recommends outfits based on current weather and personal preferences, using a trained neural network made with TensorFlow
- Used Django to create RESTful API to give users the ability to edit their closet and generate recommendations, with full user authentication

**CYBERBULLYING DETECTION BOT** | PYTHON, SCIKIT-LEARN
github.com/bduge/Cyberbullying-Detection-Bot
- Reddit bot built to detect cyberbullying within comment sections using machine learning algorithms from the SciKit-learn library
- Integrated Reddit's API to retrieve any Subreddit's comments for review

**STUDY BUDDIES** | NODEJS, EXPRESSJS, FIREBASE, AZURE, HTML, CSS
github.com/karkevin/Study-Buddies
- Web application for students to match with other students to form study groups by analyzing similarities in personality profiles and course loads
- Built backend server using ExpressJS to interface with Firestore database
- Developed matching algorithm by integrating Microsoft Azure's machine learning API to score compatibility between two students

**SKIN PROFILE** | JAVASCRIPT, PHP, MYSQL, HTML, CSS, BOOTSTRAP
github.com/menavya16/skinprofile
- Web application that recommends personalized skincare products from an extensive database depending on the user's skin characteristics and price range
- Used Bootstrap 4 to develop a responsive front end program