

# 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

### YOU'REKA 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