



SAKSHAM AGGARWAL

Mechanical Engineering

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SUMMARY OF QUALIFICATIONS

- Proficient in Java/C++ (competitive programming) and **web development**
- Experienced in SolidWorks and AutoCAD, with working knowledge of GD&T principles
- **Machining** experience through participation in design teams (**Rocketry/Formula One**)
- Intimate understanding of **algorithms** through teaching at highschool team
- Excellent **communication** skills due to various tutoring positions

SKILLS

Proficient Java//C++//Javascript//HTML5
CSS//React

Practiced Assembly//Node//Git//C
React Native

Tech SolidWorks//AutoCAD//Photoshop
Illustrator//Arduino//VEX Robotics

EXPERIENCE

Chief Technology Officer - TargetAlpha

Sept. 2016 - Jun. 2017

- **Created** website: www.targetalphacanada.ca
- Provide continued maintenance and development of bug fixes and patch sets for website gained **eye for detail** and **design**
- Created filtering system for emails that would detect for spam

Instructor - Institute of Robotics

Aug. 2016 - Jan. 2017

- **Taught lessons** to children on how to utilize technologies such as **Lego Mindstorms**, **VEX Robotics** and **Arduino**
- **Collaborated** in revision of curriculum when incorporating **Java**

Web Scraper - iRestify

Aug. 2017 - Jan. 2018

- Combined **Java (Selenium)** and **HTML** savvy to create scripts that **efficiently** extracted data from online databases
- **Punctual** and **organized** throughout tight deadlines

PROJECTS

Puppr

React//Firebase//Cloudinary

Uses image recognition to filter uploads into an image board, supports firebase authentication

Tetris

Javascript//Socket//Express

Handles server requests to mix and match players and create a smooth gameplay experience

Digit Recognition

Java

Implements machine learning with gradient descent to recognize handwritten digits

reSTARant

React Native//Google Cloud Vision

Allows users to find reviews of a restaurant by taking a picture, utilizes OCR and geonavigation

EDUCATION

- Candidate for Bachelor of Applied Sciences at University of Waterloo (GPA: 3.87)

HOBBIES

- Vector/Pixel Art
- Programming Contests
- Reading (Currently: The Dark Tower)
- Writing