

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 teaching and tutoring positions

SKILLS

Proficient Java//C++//Javascript//HTML//CSS//React//SolidWorks//AutoCAD
Photoshop//Illustrator//Arduino//VEX Robotics//Lego EV3 Mindstorms

Practiced Assembly//Node//Git//C

EXPERIENCE

Chief Technology Officer - *TargetAlpha* Sept. 2016 - Jun. 2017

- **Created** company 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

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

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 new material such as **Java**

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 a machine learning algorithm to recognize handwritten numbers

EDUCATION

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