



SAKSHAM AGGARWAL

MECHANICAL ENGINEERING - UNDERGRADUATE

S27AGGAR@EDU.UWATERLOO.CA - 647.896.3920 - APHSAI.GITHUB.IO

ME

Inquisitive and passionate student well versed in engineering design principles and heavy programming experience. He'd love to work with you.

SKILLS

SOFTWARE Photoshop, Illustrator, Dreamweaver, Audition, AutoCAD, Solidworks, Sony Vegas, GitHub

LANGUAGES Java, C, C++, Turing, HTML, CSS
Javascript/JQuery, PHP

PROJECTS

Audio Visualizer - Javascript/Canvas

Web application that utilizes Web Audio API to produce visual representations of inputted audio files.

Target Alpha - HTML/CSS/JQuery/AJAX

Fully responsive website that utilizes AJAX, PHP and Javascript to seamlessly handle forms and password protected files. Optimized for SEO.

Tetris - Javascript/Socket.io/Express.js/Canvas

Handles server requests and multiple players to create smooth and optimized gameplay experience for user with a minimalistic look and feel.

EDUCATION

- Candidate for Bachelor of Applied Sciences at the **University of Waterloo**
- Graduated from Honours Maths, Science and Computer Science program at **William Lyon Mackenzie C.I.**

EXPERIENCE

Chief Technology Officer - Target Alpha

Sept. 2016 - Jun. 2017

- **Created** www.targetalphacanada.ca
- Provide continued maintenance and development of bug fixes and patch sets for website, gained **eye for detail** and **design**
- Monitored and filtered all company emails

Web Scraper - iRestify

Aug. 2017 - Sept. 2017

- Combined **Java** and **HTML** savvy to quickly and **efficiently** extract data from online databases
- **Punctual** and **organized** throughout tight deadlines

Instructor - Institute of Robotics and Intelligent Systems

Aug. 2016 - Jan. 2017

- **Taught lessons** to small classroom on how to utilize technologies such as **Lego Mindstorms**, **VEX Robotics** and **Arduino**
- **Collaborated** in revision of curriculum

Learning Executive - Computer Programming Team

Sept. 2016 - Jun. 2017

- **Taught weekly lessons** to roughly **50 high school** computer science students
- Content ranged from basic algorithms to graph theory and dynamic programming
- Worked one-on-one with struggling students to better understand more difficult concepts
- Managed and **coordinated** team to create clear and organized lessons

HOBBIES/INTERESTS

- Waterloo Rocketry (Design Team)
- Formula One Motorsports (Design Team)
- Reading (Currently : The Dark Tower)
- Pixel/Vector Art
- Writing
- Math/Physics Contests