# JEFFREY NG

Candidate for B.ASc in Systems Design Engineering
University of Waterloo

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## Skills

- **Proficient with** Java, HTML, CSS, JavaScript, OOP, Recursive Algorithms, Bootstrap
- **Experience with** C++, NodeJS, jQuery, Python, MATLAB, APIs, Google Analytics

## Projects

**FoodEye**
- **NodeJS (jimp and node-webcam npm packages), HTML, CSS, IBM Watson Visual Recognition API**
- Application which takes photos of food with a webcam and displays its name. Built during **Hack The North 2018**.

**Physics Tutorial Learner**
- **Java GUI** consisting of **OOP, inheritance, and polymorphic** principles
- Application to create interactive simulations explaining fundamental physics principles with login menu.

**Chrome Extension Timer**
- **HTML, CSS, JavaScript** application that keeps track of time while browsing. Designed with the **Bootstrap** library.

**Traffic Racer Game**
- **3-D Python** points based game using **PyGame** library which consists of arrays and menu selection.

## Work Experience

**DV8 Communication**                                                July 2017 to August 2017
*Advertising Account Intern*
- Collaborated with Account Strategist to brainstorm advertising solutions for clients including Mitsubishi
- Analysed data about population of regions within the Greater Toronto Area to determine target demographics
- Designed appealing PowerPoint presentations for sales team to present to potential clients

**Town of Richmond Hill**                                            January 2017 to June 2018
*Lifeguard/Swim Instructor*
- Lead and taught children of ages in a wide variety of swimming drills and workouts
- Communicated with parents about their children's progress, abilities and talents
- Performed consistent routine pool cleanups and maintenance to ensure safety within the pool environment

**Science Explorations Camp York University**                        July 2015 to August 2015
*Junior Counsellor (Volunteer)*
- Facilitated MATLAB coding classes to children of Grades 1-8 in collaboration with other instructors
- Executed interactive science experiments to inspire children in science and technology
- Created and performed interactive games and activities with children

## Awards and Achievements

- **InspireHacks2017 MLH Localhost Hackday** - First Place                        July 2017
- **University of Toronto High School Design Competition** – Best Overall Solution        October 2017
- **DECA Buying and Merchandising Operations Research Event** – First Place Internationally        May 2017

## Interests

**Extracurricular:** DECA Club Executive, Environmental Council Executive, Robotics Club, Trivia Team
**Hobbies:** Swimming, Badminton, Historical Grand Strategy Gaming, Geographical Knowledge