



# Donghoon (Danny) Shin

GPA: 3.83 / 4.00

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## TECHNICAL SKILLS

### Languages:

- C++, Python, Java
- HTML, CSS, JavaScript, jQuery, Node.js
- SQL
- Arduino C

### Frameworks/Tools:

- Bootstrap, Express, Django, matplotlib, Pandas
- MySQL, Firebase
- Git

## EDUCATION

### University of Waterloo - Bachelor of Mechatronics Engineering

2018 – 2023

## ACCOMPLISHMENTS

- **Cisco-Networking**  
Academy's IT Essentials  
Certificate
- **1<sup>st</sup> Place** London Science  
Olympics robotics  
competition
- **ICTC-** Focus on Information  
Technology (FIT) certificate

## INTERESTS & HOBBIES

- NFL, Tennis, Rock Climbing
- Terrain trekking
- Jazz piano
- Competing at Hackathons

## PROJECTS

### Actollo Fitness - *HTML, CSS, JS, Bootstrap, jQuery, Firebase*

Jul. 2018 - Present

- Developed a full stack application that suggests training regimen for athletes that increased client commitment by **24%**
- Utilized OpenWeatherMap **API** for live 'temp-smart' decisions
- Maintained backend of user data with **Google Firebase** as **JSON**

### Shopify App Store - *Python, SQL, MySQL-Connector*

Nov. 2018 – Jan. 2019

- Processed big data of user ratings for **2500+** apps on the Shopify App Store to discover user satisfaction trends
- Designed Pro-Sentiment algorithm on **Python** capable of identifying the favored percentile of apps in a category

### THE TICKER - *HTML, CSS, JS, Node.js, Express*

Jan. 2018 – Nov. 2018

- Built a web app tic-tac-toe game and **RESTful API** with **JSON** database of user information that communicates with **AJAX** calls
- Designed an unbeatable **AI Opponent** using the Minimax algorithm

### Population Trend Tracker - *Python, matplotlib, Pandas*

Mar. 2016 – Oct. 2016

- Analyzed the cause of Japan's decreasing population using tools from **matplotlib** and **Pandas**

### Personal Website - <http://www.dannyshin.me/>

## EXPERIENCE

### University of Waterloo EcoCar Team - *Control Systems Engineer*

Sept. 2018 – Present | Waterloo, ON

- Wrote scripts to calculate power loss along the drive chain's P-series motors to optimize settings and decrease power loss by **5%**
- Implemented parameterization for the 2019 Chevrolet Blazer architecture model on **MATLAB** and **Simulink**

### Canadian Association of Marketing Professionals - *Internship*

Mar. 2017 – Sept. 2017 | Toronto, ON

- Provided computer IT assistance for employees and **published** an article on the social media's market influence on generation 'Z'