

Edwin Zhang

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Education

Candidate for BAsC in Computer Engineering | University of Toronto | 2018 - 2022

- CGPA: 3.70/4.0
- Awards: Four times Dean's List recipient (Honors), Edward S Rogers Scholarship

Experience

Full Stack Developer | Major Tonic | Jun. 2020 - Present

- Designed drop shipping inventory management system using **MongoDB Atlas** and **NodeJS**
- Coded responsive user interface with **React** and **React Bootstrap**
- Implemented client payment system using **Stripe**
- Designed user sign-in, sign-up and authorization strategies using asynchronous hashing and BcryptJS

Research and Design Engineer | StatsDrone | Jan. 2019 – Apr. 2019

- Designed improvements to validation algorithms to increase accuracy for error detection in **KPI's**
- Assisted in implementing strategies to protect user identity and security
- Acted as the team **project manager**. Responsible for team workload distribution and weekly progress reports with the engineering manager

Projects

Titanic Survival Competition | Python, Seaborn, Sci-kit Learn | June 2020

- Trained a **logistic regression model** to predict passenger survival on the Titanic
- Achieved an accuracy score of 77%

Auto Application Tracker | Python, BS4, Pandas | May 2020 - Present

A program that automatically scrapes important data off online job applications and formats into excel

- Coded **web scraping algorithms** to support many public job boards
- Implemented data analytics functions to assist in monitoring the user's application process

Open Street Map (OSM) GIS | C++, GTK, Valgrind | Jan. 2020 – Apr. 2020

Developed a [city mapping application](#) with route planning for a design course project

- Coded algorithms to parse raw data into more useable forms such as user-friendly graphics
- Implemented variations of **A*** and **Dijkstra** to calculate optimal routes between destinations
- Created an algorithm based off **simulated annealing** to solve a complex variant of the traveling salesman problem

Blue Sky Solar Racing | University of Toronto Design Team | Sept. 2018 – Sept. 2019

Blue Sky Solar manufactures a life sized solar powered race car to race 3000+ km every two years

- Assisted in designing car using **CAD** software
- Manufactured carbon fiber aero-body and prototyped driver's chassis
- **Placed 11th internationally** at the 2019 BridgeStone World Solar Challenge

Skills

Proficient Programming Languages:

C++, C, Python, Java

Soft Skills:

Driven, team-oriented, accountable

Web Tooling:

JavaScript, HTML, CSS, NodeJS, ReactJS

Technologies:

GIT, Windows, Unix, Linux