

Sharon He

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🐙 xsharonhe

🌐 sharon-he-dev

Skills

Languages: Python, Javascript, Java, SQL, C

Technologies: TypeScript, NodeJS (+ Express), React (+Gatsby), MongoDB, Django, Pandas, Scikit-Learn, TensorFlow, Git

Education

University of Waterloo

Sept. 2020 - Apr. 2025

- *Candidate for Bachelor of Software Engineering, B.S.E.*

Experience

CheaprEats, Software Developer Intern

Aug. 2020 - Jan. 2020

- Built extensible store hours operation and clientele management system used by 30+ vendors using **React, TypeScript, GraphQL**, and component-driven methodology, increasing customer outreach by 8%
- Built draggable components for virtual receipt builder using **react-beautiful-dnd** and **react-table**
- Led front-end architecture and collaborated with group of five interns

Elucidate AI, Data Science Intern

Oct. 2020 - Dec. 2020

- Built a **Decision Tree** classifier to predict if a potential buyer would become a purchaser with 73% accuracy
- Developed a **K-Means** classifier with **scikit-learn** to identify purchaser behaviour trends, increasing client sales by 12%
- Built a workflow to automatically combine over 1,000,000+ rows of data using **Python**, saving over 80+ hours of dev time

XNM Creations Inc., Intern

Nov. 2018 - Sep. 2020

- Created profit and loss reports, inventory management systems, and keyword advertising analysis, decreasing advertising costs by 10%, using **Excel** and **Python**
- Developed and maintained company website using **JavaScript, jQuery**, and **Liquid**, serving 20,000+ customers annually
- Built their financial API tools using **Python** and **PostgreSQL**

Coronavirus Visualization Team, Lead Technological Analyst

Jun. 2020 - Sep. 2020

- Led a team of 8 to investigate the impact of the oil on the aviation industry during COVID through data visualizations
- Web scraped from international embassy websites using **BeautifulSoup** to create a travel advisory website, reducing manual work by 120 hours
- Created a **Python** script to clean large Twitter datasets used the **VADER** library to perform sentiment analysis

Projects & Awards

BridgeIT, Best Overall Hack at SheHacks (Top hack of 100+ submissions)

<http://bit.ly/bridgeithack>

- Led a team of four to develop a full-stack web application, connecting remote communities with local health organizations to encourage donations of excess medical supplies
- Used **Geotabs** datasets to build a **random forest** and extra tree regressor with **Google Maps Distance Matrix API** and **scikit-learn** to recommend the shortest time it would take to cross the border

Open Door, TypeScript, Django, VADER, NLTK, PostgreSQL

http://bit.ly/opendoor_dev

- Data-driven platform that helps students find their ideal rental suiting their unique budget and preferences
- Implemented a **Django** REST API workflow to develop the analytics platform using **VADER** to perform sentiment analysis and **NLTK** to summarize sentiment using word frequency
- Incorporated **Nivo**'s visualization libraries, and built search bar and infinite scrolling **React** components with **TypeScript**

ICDC 1st Place in Virtual Business Challenge, DECA Inc.

2018, 2019

- Placed first at the DECA International Career Development Conference out of 3,000+ students

Publication

Healthcare Automation in COVID-19 (Nov. 2020). Golden Meteorite Press. Supervised by Dr. A. Mardon. https://bit.ly/sharon_pub