

www.sharonhe.me (647)-873-6718



Skills

Languages: Python, JavaScript, Java, SQL, C, C++

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

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 clientele management system using React and TypeScript, increasing customer outreach by 8%
- Designed and created draggable components for virtual receipt builder and created pipeline to save user receipt elements using GraphQL API endpoints, Node.js and MongoDB

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 anually

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, 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 using **React**, **PostgreSQL**, and **Django** aimed at connecting remote communities with local health organizations to encourage donations of excess medical supplies
- Designed and implemented recommendation engine that optimizes US-Canada border-crossing times with Google Maps
 Distance Matrix API, Django, and scikit-learn, and connected with front-end React components

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

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 and store metrics in **AWS RDS** database
- Incorporated Nivo's visualization libraries, and built search bar and infinite scrolling React components with TypeScript

OffEye, Flask, Sqlite, Bootstrap, Socket-io

http://bit.ly/sharonhe_offeye

- Developed a multi-user realtime application to automate job hunting process using socket.io, and Flask server
- Enabled speech to text functionality and automating email notifications with Python and a sqlite database

Everest, React, Redux, Mailchimp API, Firebase, Node.js

http://bit.ly/sharonhe_everest

• Created an e-commerce fitness website integrating **Stripe** payments, **Firebase** authentication, and **Node.js** server

Tetris, JavaScript, Bulma

http://bit.ly/sharonhe_tetris

• Recreated Tetris using **JavaScript** and **Bulma** with four-tier difficulty levels

Publication

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