Sharon He

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in sharon-he-dev

Skills

Languages: Python, JavaScript, Java, SQL

Technologies: TypeScript, React, Django, Pandas, Scikit-learn, Docker / K8s, GCP, Node (+Express), Git

Education

University of Waterloo   Sept. 2020 - Apr. 2025
- *Candidate for Bachelor of Software Engineering, B.S.E.*

Experience

GEOTAB, *Software Developer Intern*   May 2021 - Present
- Built a Pub/Sub monitor using **Python, Docker, Kubernetes**, and **GCP**, decreasing file processing time by 60%
- Integrated **Prometheus** metrics and **Grafana** dashboards to data processing pipelines which led to 4 bug fixes
- Developed unit tests for data pipeline microservice, achieving 100% code coverage with **Pytest**

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

CheaprEats, *Software Developer Intern*   Aug. 2020 - Jan. 2021
- 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**

XNM Creations Inc., *Intern*   Nov. 2018 - Sep. 2020
- Created profit and loss reports, inventory management systems, and keyword adveritising 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

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 to develop the analytics platform using **VADER** to perform sentiment analysis and **NLTK** to summarize sentiment using word frequency and store metrics in **PostgreSQL** database

Community Involvement

Prospective Medical Professionals, *Head of Technology*   Jan. 2021 - Present
- Leading a team of 16 high school and elementary school students to redesign charity's website using **Next.js**
- Created Storybook UI library, Git practice tutorials, and training documents to teach students how to code

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 using **matplotlib** and **Tableau**
- Web scraped from international embassy websites using **BeautifulSoup**, reducing manual work by 120 hours
- Created a **Python** script to clean large Twitter datasets and used the **VADER** library to perform sentiment analysis