Sharon He

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xsharonhe
sharon-he-dev

Skills

Languages: Python, JavaScript, Java, C#, SQL
Technologies: TypeScript, Docker / K8s, GCP, / AWS, Pandas, Scikit-learn, React, Django, .NET, Node (+Express), Git

Education

University of Waterloo Sept. 2020 - Apr. 2025
- *Candidate for Bachelor of Software Engineering, B.S.E.* GPA: 94.3%

Experience

GEOTAB, *Software Developer Intern* May 2021 - Aug. 2021
- Built a Pub/Sub monitor using **Python, Docker, Kubernetes**, **Apache Avro**, and **GCP**, decreasing data processing time by 600% and resulting in savings of around $70,000
- Integrated **Prometheus** metrics and **Grafana** dashboards to data processing pipelines which led to 8 bug fixes
- Worked on building more fault-tolerant data history report features using **C# (.NET), TypeScript,** and **PostgreSQL**

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, Storybook,** and **TypeScript**
- Designed and created draggable components for virtual receipt builder and created pipeline to save user receipt elements using **GraphQL** API endpoints

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** and **jQuery**, 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
- Led a team of 16 high school students to redesign charity's website using **Next.js, Prisma,** and **PostgreSQL**
- 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