

Sarah Tan

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LANGUAGES AND SKILLS

- *Software Skills* - Object-oriented programming, Agile Methodology, Git, REST, Test-Driven Development
- *Languages and Web Technologies*- Java, Python, JavaScript, C#, .NET, Angular, CSS, HTML, SQL
- *Machine Learning* - Scikit-learn, NumPy, Pandas

WORK EXPERIENCE

Software Developer Intern | Geotab, Oakville, ON May 2021 - Present

- Designed and implemented new features for a reseller portal website using SQL, C#, and Angular
- Utilized test-driven development best practices to deliver high-quality maintainable code
- Participated in code reviews and daily standups to facilitate agile development methodologies

Undergraduate Summer Research Intern | Western University, London, ON May 2020 – September 2020

- Designed an electric vehicle charging and range prediction model that is 92% accurate using various machine learning algorithms and preprocessing techniques written in Python and Scikit-learn to reduce customer range anxiety
- Utilized remote working tools including team schedules, virtual meetings, and Git to communicate and deliver a high-quality final product by the company's deadline

LEADERSHIP EXPERIENCE

Director of Education | Western AI, London, ON June 2020 – Present

- Created curriculums, machine learning models and interactive code tutorials to teach machine learning and empower the members of Western AI with knowledge for their personal growth
- Taught ethics and business applications of AI to broaden the range of students with opportunities in Western AI

Varsity Athletics | University of Western Ontario Cheerleading, London, ON May 2018 - Present

- Used time management skills to balance a full course load with competitions, practices, and games
- Performed at the 2019 Juno Awards and helped lead the team to back-to-back intercollegiate national championships

PROJECTS

Timetable Website | Western University, London, ON December 2020

- Created a user-friendly timetable website using Western's data and deployed it on an AWS server
- Implemented the front end using Angular and the backend using Node.js, Express and MongoDB

InTouch | EnactusHacks, London, ON October 2020

- Designed an app that uses a machine-learning clustering algorithm written in Python to pair students together, encourage new friendships and support mental health
- Won best mental health hack

EDUCATION

University of Western Ontario | Bachelor of Engineering Science, Software Engineering 2022

- Deans honor list with 3.9 GPA (2019, 2020)

Key areas of study and courses taken:

- Algorithms and Data Structures (achieved 100%), Software Design, Web Technologies (achieved 100%), Database Management Systems