

SHUONI XU

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EDUCATION

- **University of Waterloo** Canada, Sept 2021 - Dec 2022
Master of Engineering, Electrical and Computer Engineering, Specialization in Software Engineering
- **Changzhou University** China, Sept 2017- Jun 2021
Bachelor of Engineering, Software Engineering

WORK EXPERIENCE

Planet XR Oct 2022 - Jan 2023
Software Engineer Intern *Toronto, Canada*

- Developed a **Java**-based Web app platform for users to upload models(3d pictures) using **Spring Security**, **MongoDB**, **REST API** based on **Agile Development**, and followed **OOP** principles;
- Implemented registration system using **JSON Web Token(JWT)** and **OAuth2.0** for authentication and social login(Google and Apple), and compute business metrics and analytics using **GraphQL**.

Volvo Cars Apr 2021 - Dec 2021
Software Engineer Intern *Shanghai, China*

- **Optimize storage and computation** by collaborating with Enterprise Digital Department and stakeholders to identify and scope the right data architecture for R&D to be used to facilitate analysis of most common car development questions;
- Developed a **fast and configurable Python(Selenium)**-based web browsers application with **XML** scripts, **RESTful API** and other **big data tools(S3, Hive, Redshift, Lambda)** to **automatically** ingest large datasets from multiple sources space(Internal websites, Windows applications, etc) daily, **getting over 80% time saving**;
- Developed **SQL queries** from ODS to DM to support **PowerBI** reports with over 3 billion records using **Redshift**;
- Built an automated set of **data pipelines** with **Airflow** and deployed it on **AWS** to automatically monitor and debug data warehouse **ETL** pipelines to improve data quality, **nominated by 2021 Volvo Cars APAC President Award(CRD Data-driven Transparency)**.

PROJECTS

Shortcuts for Volvo Cars — *Figma, Python, Flask, MySQL, Vue, Rest API, AJAX* [Github] Nov 2021 - Dec 2021

- Designed an interactive UI and developed shortcuts web platform, interacted with demo car(window lifting control, engine control, etc), developed car information dashboard using Volvo API, generated car use reports for users, implemented a to-do list function and connected it with car navigation function, provided an intelligent car experience for users and **won first prize in Volvo Hackathon in 2021**.

EasyQ — *Agile, Git, Node.js, MySQL, Redis, Bootstrap, AWS, Nginx, Mocha* [Youtube] Jan 2022 - Apr 2022

- Designed and developed a productivity application and database with different home pages for instructors, TAs, and students, used email authentication(sign up and forget passwords) and generated unique class codes for security purposes;
- Implemented a real-time queue system, resulting in a convenient and time-saving experience for students to join office hours, used cookie authentication to authenticate client requests and maintain session information.

E-refrigerator— *Java, Spring, MongoDB, Html/CSS, Vue.js, UML, CI/CD, Unit test* Nov 2020 - Jan 2021

- Collaborated and led team in agile development, developed a micro-service web application, implemented a client-server architecture and CRUD functions that enable efficient management of personal food inventory, set food expiry alerts.

Personal Website [Website], [Github] Dec 2022

- A personal website using **Next.js**, **Tailwind CSS**, **Javascript**, **Github Action**, **React**, **HTML**, **jQuery**, **AOS**.

SKILLS

- **Program Language:**Python, Java, C#, C, C++, SQL, JavaScript, Html, CSS
- **Framework/Library:**Node.js, Vue, ExpressJS, Flask, Django, Bootstrap, Spring, React, Next.js, Tailwind CSS, GraphQL
- **Tools:** Linux, Git, LaTeX, Figma, AWS, Docker, Redis, RESTful API, CMake, Jira, Postman