Shuoni(Sharon) Xu

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SKILLS LIST

- **Programming Language**: Python, Java, C#, C/C++, SQL, JavaScript, Html/CSS, Node.js
- **Framework/Library**: Vue, ExpressJS, Flask, Django, Bootstrap, SpringBoot
- **Other skills**: GraphQL, Linux command, Git command, LaTex, Figma, AWS, Docker, Redis, RESTful API, CMake

WORKING EXPERIENCE

Software Engineer Intern   2022.10 - Present

Planet XR(AR Startup)   Toronto, Canada(Remote)

- Designed and developed a **Java**-based Webapp platform for users to upload models using **SpringBoot** as backend with **MongoDB** as database, worked with **GraphQL** queries to compute business metrics and analytics;
- Implemented login system using **JSON Web Token(JWT)** and **OAuth2.0** for authentication.

Software Engineer Intern in Research & Development Department   2021.04 - 2021.12

Volvo Cars   Shanghai, China

- Collaborated with Enterprise Digital Department to identify and scope the right data architecture for R&D to be used to facilitate analysis of most common car development questions, and optimize storage and computation;
- Ingested large datasets from multiple sources by **Python** Script with **Selenium** and **XML** scripts and **RESTful API** and other big data tools(**S3, Hive, Redshift, Lambda**);
- Developed **SQL** queries from ODS to DM to support **PowerBI** reports with over three billion records using Redshift;
- Created and automated a set of data pipelines with **Airflow** and deployed it on **AWS** to automatically monitor and debug data warehouse **ETL** pipelines;
- Hosted internal **Python** training weekly, and shared knowledge about how to process a large amount of data.

PROJECT EXPERIENCE

Shortcuts for Volvo Cars   2021.11 - 2021.12

Web Development Project(Hackathon Project), Volvo Cars

- Developed the platform using **Flask** in **Python** as backend with **MySQL** as database and **Vue.js** as frontend, implemented CRUD and several primary functions with **RESTful APIs**, **Postman** and **Axios**.
- Got first prize in Volvo Hackathon in 2021.

E-refrigerator   2020.11 - 2021.01

Web Development Project, Changzhou University

- Design a personal food bank platform to record food, and send alerts automatically when the food is to exceed the time limit, developed the **Java**-based Webapp using **Springboot** as back-end with **MongoDB** as database and **Vue.js** as front-end, implemented **CRUD** and other primary functions with **RESTful APIs** and **Data Scraping**;

EasyQ(Queueing System)   2022.01 - 2022.04

Web Development Project(Group Project of 6 Members), University of Waterloo

- Collaborated with **Agile Method**, used **GitHub** as the repository and **Trello** as **KanBan Board** for teamwork;
- Developed back-end program using **Node.js** with **MySQL** as database and **Vue.js** for front-end with **Bootstrap**, used **Redis** as in-memory data store, deployed the platform on **AWS** cloud using **Nginx**, used **unit test** and **integration test** for back-end with **Mocha.**

Security Camera Installation System for Local Police Department   2021.09 - 2021.12

Linux Program Development Project, University of Waterloo

- Implemented a virtual map generator with **Python** and a path-finding module using **Dijkstra** algorithm with **C++**;
- Implemented **interprocess communication** in **Linux**, applied **multi-processing** for connected map generation, road crossing calculation, and shortest path selection.

EDUCATION

University of Waterloo   2021.09 - 2022.12

Master degree of Engineering, Electrical and Computer Engineering

Changzhou University   2017.09 - 2021.07

Bachelor degree of Engineering, Software Engineering