LAURA ZHANG

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SKILLS

C/C++, Python, R, Java, Kotlin, SQL, C#, JavaScript, React TypeScript, HTML, CSS

EXPERIENCE

Software Engineer Intern   Utah Nanofab Cleanroom   May 2023 - Dec 2023

- Monitor and store the run data of equipment using TypeScript, **Axios**, **Node.js** and **Google Drive API**.

- Cross-reference run data and reservation data using Python **Pandas** to filter the users who failed to check out the precious metals and generate emails to the equipment owner.

- Develop and maintain an Android application to display live updates of users in the lab with **Retrofit** and **Ktor**.

Apple Certified Repair Service Technician   University of Utah Campus Store   Apr 2023 - Dec 2023

- Troubleshoot and determine disposition of defective **macOS** products and perform board-level repairs.

- Provide software technical assistance, hardware diagnostics and data transfer service to the University community.

Data Scientist   Amazon   May 2022 - Aug 2022

- Collaborated with vendor management to optimize data tidying processes and reduce manual processes within Amazon Fresh Japan node as a bilinguist in English and **Japanese**.

- Extracted and stored product datasets by web crawling using TypeScript and **Node.js**.

- Developed Python applications using **Pandas** to tidy datasets involving product and vendor information. Generated HTML emails to check in with customers using Python.

- Saved 8 hours of labor per week by implementing each program and contributed to the digital transformation of RBS Japan FLEX team.

Data Analyst   ZhuoMan Technology Co., Ltd   Oct 2021 - May 2022

- Analyzed and visualized market and campaign data using **MySQL**, **Impala** and R.

- Developed a web application to upload Excel files and visualize the data as dot charts with **Flask** and **D3.js**.

- Created composite indexes for **Clickhouse** database and improved query performance by 400%.

PROJECTS

The Blue Studio   Oct 2023 - Dec 2023

- Developed an Android drawing application using Kotlin and created UI elements using **Jetpack** and **ViewModel**.

- Implemented user authentication using **Google Firebase** and social features (sharing and importing pictures) in an HTTP application server using **Ktor**.

Learning Management System   June 2023 - July 2023

- Implemented a Canvas-like dashboard for tracking students, teachers, and records in school using **C#**.

- Developed controller functions by Scaffolding and **LINQ** and communicated with servers by **AJAX**.

EDUCATION

Master of Software Development   Aug 2022 - Dec 2023

University of Utah   GPA: 3.87

Master of Engineering in Energy, Environmental & Chemical Engineering   Jan 2020 - May 2021

Washington University in St. Louis   GPA: 3.58

Bachelor of Engineering in Chemical Engineering   Sep 2015 - July 2019

Tianjin University