

LAURA ZHANG

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SKILLS

C · C++ · Python · R · Java · Kotlin · SAS · SQL · C# · JavaScript · TypeScript · HTML · CSS

EXPERIENCE

Database Analyst

March 2024 - present

University of Utah Surgical Population Analysis Research Core

- Design and maintain healthcare data warehouses with Microsoft SQL Server and PostgreSQL.
- Collaborate with researchers to create statistical analysis and visualization for academic articles.
- Extract and save university regulation webpages as PDFs by web crawling using Python BeautifulSoup for NLP chatbot development.

Apple Certified Repair Service Technician

Apr 2023 - Dec 2023

University of Utah Campus Store

- Troubleshooted and determined disposition of defective Apple products and performed board-level repairs.
- Provided software technical assistance and hardware diagnostics to the University community.

Data Scientist

May 2022 - Aug 2022

Amazon

- Collaborated with vendor management to optimize data tidying processes and reduce manual processes within Amazon Fresh Japan node.
- 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

Oct 2021 - May 2022

ZhuoMan Technology Co., Ltd

- Analyzed and visualized market and campaign data using MySQL, Impala and R.
- Created composite indexes for Clickhouse database and improved query performance by 400%.

PROJECTS

Soccer Player Database

Dec 2023 - Jan 2024

- Developed a Flask application to serve player information through REST API endpoints.
- Implemented frontend using D3.js that showcases player data as tables, bar charts and dot plots.

The Blue Studio

Oct 2023 - Dec 2023

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

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