

Vincent Lau

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PROFESSIONAL EXPERTISE

SQL | Python | Typescript | Next | React | Material UI | HTML | CSS | Pandas | NumPy | Matplotlib | Agile

WORKING EXPERIENCE

Grouppers, Inc

Vancouver, CA

Full-stack Engineer

Mar 2024 – Present

- Developed the MVP version of the AI-powered user-end business website applied **React.js** framework, which aims to provide members with personalized nutrition recommendations using **AI**
- Utilized **HTML**, **CSS** and **Typescript** to develop and fix over **10** components in **5+** responsive landing pages
- Implemented Figma **UI/UX** design using **Material UI** component library, increasing development efficiency by **30%**
- Collaborated with a **Scrum**-based team, managing code versioning and concurrent development using **Git**
- Implemented the **Order History** feature, allowing users to track and view their past orders, improving user engagement
- Optimized the **Nav Bar** feature for both desktop and mobile responsiveness, enhancing user interface functionality

Glocal Foundation, Inc

Vancouver, CA

Sr. Data Engineer, Analytics

May 2024 – Present

- Leveraged data to drive insights that support clinical research, streamline the process of analyzing patient data and medication usage, and enable decision-makers to understand trends and outcomes, ultimately improving patient care
- Implemented data cleaning including handle Missing Value, duplicates, and outliers using **Python (Pandas, NumPy)** to provide **3+** cleaned dataset to analyze effectiveness of medication, increasing data consistency by **17%**
- Performed **ad-hoc analysis** through extracting **400MB+** data from Caboodle database from EPIC system, optimized **SQL** queries which increasing executing speed by **20%**

Defend Technology, Inc

Vancouver, CA

Data Engineer, Analytics II

2023 – 2024

- Designed **Customer Scoring System** by segmenting and tagging customers using the **RFM** model, addressing data skewness through feature engineering to enhance segmentation accuracy and improve system performance
- Leveraged the **Python Scikit-Learn** library to forecast membership type sales by fitting models including ARIMA, SARIMA, Linear Regression, and Decision Tree, achieving **78%** accuracy, with **LR** showing the best fit

Rainer Technology, Inc

Beijing, China

Data Engineer, Analytics I

2019 – 2023

- Achieved banking digital transformation and data **ETL pipeline** via stored procedures development in **DB2**
- Automate data loading and logging processes through **Shell** scripts resulting in **1 FTE saving**

EDUCATION

University of Nottingham

Nottingham, UK

M.S. in Artificial Intelligence

Jul 2021 – Dec 2022

- Graduated with Merit

Guangxi Normal University

Guilin, China

B.S. in Computer Science

Sep 2016 – Jul 2020

- GPA: 3.53/4.0