Anson Liang

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Technical Skills

Languages: Python, JavaScript, Java, C, SQL, HTML, CSS, Bash, R
Tools/Frameworks: AWS, React, Node.js, PostgreSQL, Tailwind CSS, Django, Bootstrap, Git

Experience

Application Programmer | Ontario Ministry of Health   Jan 2024 – Apr 2024
- Built **Python** scripts to process data retrieved from **S3 buckets**, shortening processing time by **15%**
- Reduced **session retrieval time** by migrating Oracle database to the **Amazon Redshift** data platform
- Increased the company's on-premise server storage by **22%** through migrating scripts onto **AWS Glue**

QA Analyst / Data Operations | The Nationwide Group   May 2023 – Aug 2023, Sept 2024 – Jan 2025
- Created test cases/data using **MySQL** to validate UI features reaching **50k+** monthly users
- Wrote automated scripts to summarize over **2k** reports, reducing manual scoring by **27%**
- Organized and reduced redundant information in the backend database by **30%** using **Excel**
- Designed UI/UX for the company's appraisal forms to create a more consistent platform experience

Web Developer | University Health Network   May 2022 – Aug 2022
- Revamped intranet platform to allow researchers to access their materials **20%** faster by implementing webpages and usability features using **HTML**, **CSS**, and **JavaScript**
- Migrated backend to **dotCMS** and consolidated REST APIs to decrease redundancy
- Collected feedback from the design team and presented weekly progress demos to clients

Web Developer | Quartz Market   Nov 2020 – May 2021
- Developed a website to organize ticket sales, promote workshops, and connect **12** small businesses with over **3.5k** potential customers, increasing brand visibility, using **HTML**, **CSS**, and **JavaScript**
- Facilitated design decisions between departments by creating website prototypes and seeking feedback
- Awarded **Company of the Year** among **40** unique start-ups at the Junior Achievement Company awards

Projects

AI Sports Predictor
- Built a **Python** model to predict the outcomes of football games with **85%** accuracy, featuring a UI display
- Cleaned and processed over **100k** rows of data to train **linear regression** models for accurate predictions

React Budgeting App
- Created a responsive web app using **React** and **TypeScript** that allows users to plan budgeting expenses
- Enabled user customization of the frontend by implementing persistent colour themes using cookies

Learning Log
- Developed a user-authenticated web app that allows users to log their progress on topics using `Django`
- Engineered a responsive website with personalization features using **Bootstrap**

Restaurant Manager
- Created a restaurant ordering application that enables customers to view their previous transactions, search for restaurants, and print order receipts using `Java` and a `graphical user interface`
- Implemented a log of users' order history and restaurant favourites in a database

Education

University of Waterloo   Sept 2021 – Apr 2026 (Expected)
Candidate for Bachelor of Mathematics (Statistics), Minor in Computing