

Alex Tan

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University of Washington Informatics student with a passion for software development and database management. Seeking a career in software development in environments that advocate best engineering practices. Eager to learn new technologies and methods and use experiences from coursework, an internship, and personal projects to create efficient and useful programs.

EXPERIENCE

Stackline, Seattle, WA — Full Stack Engineer Intern

June 2018 - April 2019

- Automated daily and weekly business operations with Python and AWS services.
- Built simple and intuitive internal tools with React, allowing employees company-wide to safely read and write to databases without knowledge of SQL.
- Implemented scheduled web crawlers to extract SKU data from big retailers like Target, Walmart, Amazon, scraping over 10 million data points a day.
- Built AWS Kinesis pipelines processing crawled activity into Redshift and monitored the quality of data using CloudWatch metrics.

University of Washington Libraries, Seattle, WA — Purchasing / Financial Services Assistant

October 2015 - June 2018

- Assisted in purchases and the circulation of all items between the UW Libraries.
- Developed a coherent local inventory system, storing information on nearly 500 products, and managed a purchasing database to reconcile budget expenditures.
- Used data to predict the quantity of items needed for different time periods to avoid shortages of materials during peak periods.
- Communicated with multiple vendors and staff to confirm all items are properly received.

EDUCATION

University of Washington, Seattle, WA — Informatics

September 2015 - June 2020

PROJECTS

Messaging Service

Created a messaging service with a microservice architecture with Golang and Node.js. Handled secure authentication with MySQL and redis and message transfer with MongoDB and websockets. Deployed to a domain using docker and shell scripts.

Mobile App Development

Building a mobile application with the React Native framework for front end and AWS Amplify to handle the back end. Practicing proper planning and usage of Github kanban boards for a smoother workflow.

Personal Recipe Saver

Built a multi-route website to input and store recipes using React.js and Firebase in an organized fashion.

SKILLS

Python, Golang, React.js, Node.js, Typescript

Docker

SQL for transactions and data warehousing

Amazon Web Services (Redshift, EC2, S3, Kinesis, Lambda)

Async programming

Shallow Machine Learning

Self-motivated

Teamwork

Problem solving

Relevant Coursework

Cse 417

Algorithms & Computational Complexity

Info 443

Software Architecture

Info 441

Server Side Development

Info 340

Client Side Development

Info 430

Database Design & Management