

# Alex Tan

University of Washington Informatics 2020 graduate with a passion for software development and solving problems. 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 — Software 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

#### Official Game News

Built a chrome extension where users select from a list of video games to get notifications of recent news or patch notes from the respective official sites. Heavily utilized AWS services.

#### Varmada

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

#### Slack Replica Web App

Built a slack replica 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 server using docker and scripts.

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<https://www.linkedin.com/in/alex-tan-10b491187/>

## SKILLS

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

Docker

SQL for transactions and  
data warehousing

Amazon Web Services  
(Redshift, EC2, SQS,  
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