

Alex Tan

UW Informatics 2020 graduate with a passion for software development and solving problems. I have a strong full-stack development background using React and Node, working on web and mobile apps alike. I am also versed in Java, Go, AWS, and Docker. While I specialize in software engineering, Informatics has given a more holistic background that allows me to tackle problems from multiple perspectives. Eager to learn more and use my experience to create efficient and useful products.

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.
- Created scheduled web crawlers to extract SKU data from big retailers like Amazon and Target, 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

- Purchased and circulated items for all UW libraries.
- Developed a coherent local inventory system, storing information on nearly 500 products, and created a purchasing database to easily reconcile budget expenditures.
- Used data to predict the quantity of items needed for different time periods to avoid shortages of materials during peak periods.

EDUCATION

University of Washington, Seattle, WA — Informatics

September 2015 - June 2020

PROJECTS

Restaurant Website

Duration - 2 months

Designed and created a complete and responsive restaurant website using React.js and CSS. Users can easily find restaurant details and order food via carryout or delivery.

Official Game News

Duration - 2 months

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

Duration - 5 months

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

Duration - 3 months

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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SKILLS

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

Docker

SQL for transactions and data warehousing

NoSQL

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

React Native

CSS

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