ALICE TAN

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EMPLOYMENT

Amazon · Software Engineer · New York City, NY   Nov. 2020 to Present
* Built a Virtual Try On experience with a React frontend and GraphQL backend service for standard and custom sized clothing , where customers can generate a virtual avatar and view the shape and fit of garments on their body
* Design for systems that can support large volumes of requests (over 500k in a given week) as well as traffic spikes during promotional periods + holiday season (prime day)
* Designed and implemented a garment management system to manage and vend garment related configurations and assets, supporting garment scalability and expansion
* Built a feedback feature that has since received over 300 million requests, allowing customers to send feedback on their custom avatar and garment drape. This feedback is used to iterate on our machine learning models and ensure our experiences are customer centric
* Implemented a mannequin mode feature that supports skipping over the body capture portion of the try on experience, which has seen over 700% increase in avatar loading and 3x increase in add to cart rate
* Serve as oncall 24/7 monthly for team's services, addressing high severity issues and promoting operational excellence

ServiceNow · Software Engineer · San Diego, CA   Sept. 2019 to Oct. 2020
* Built and supported integration via web services in an Agile Environment (specifically the REST API framework on the platform)
* Supported the asynchronous message communication framework on the platform
* Implemented features for scripted web services, promoting flexibility and customization for application developers to build custom web service APIs
* Added enhancements for our GraphQL API, the backbone of the service desk application, to support product efficiency and internal team dependencies
* Assisted customers and technical support engineers on high priority tasks touching inbound web services in an immediate and timely manner

Software Engineering Intern · San Diego, CA   May 2018 to Aug. 2018

Girls Who Code · Summer Immersion Program Instructor · New York, NY   June 2019 to Aug. 2019
* Led instruction on Scratch, Python, Web Design, Data Science, and Robotics while maintaining an engaging and accessible classroom environment for a highly diverse group of 20 high school girls
* Managed one Teaching Assistant who served as support in classroom management

EDUCATION

Pomona College   Aug. 2015 to May 2019
B.A. Computer Science minors in Mathematics and Economics 2019
Data Structures & Algorithms, Graph Algorithms, Logic & Computability, Computer Systems, UI/UX, Differential Equations, Probability
Pomona College Scholar - awarded to top quarter of class
Claremont, CA

Aquincum Institute of Technology   Aug. 2017 to Dec. 2017
Study Abroad
Algorithms, Mobile Software Development, Combinatorial Optimization
Budapest, Hungary

Lakeside School   Aug. 2011 to May 2015
High school
Seattle, WA

SKILLS

PROGRAMMING: Java, Python, Javascript, React, HTML/CSS, GraphQL, AWS
TOOLS: Git, Android Studio, Stata
LANGUAGES: English, Chinese, French

PROJECTS

Pantry Rescue   Winter 2017
Get and search recipes with specific ingredients using Food2Fork's API to help limit food waste and share reviews to a public blog powered by Firebase Realtime Database
Written in Java for Android Mobile

ACTIVITIES

Upchieve Associate Board · Associate Board Member   July 2022 to Present
Serve as a board member, supporting the organization through fundraising and amplifying the organization's reach and relevance

Rainier Scholars   June 2008 to May 2019
Participated in a rigorous 11-year academic and leadership enrichment program for talented and motivated low income students of color