ALAN ZHAO

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EDUCATION

The App Brewery   **Online**
Full-Stack Web Developer   May 2022 – Jul 2022
University of Illinois Chicago   **Chicago, IL**
Bachelor of Sciences *in Biochemistry*   Aug 2017 – Dec 2021

CERTIFICATION/TECHNICAL SKILLS

- **Certified Solution Architect Associate** - Amazon Web Services (AWS)
- **Programming Language**: Java, Python, JavaScript, Typescript, HTML, CSS
- **Technology Framework**: React, Node.js, Spring Boot, Express, MongoDB, AWS, GCP, Next.js

WORK EXPERIENCE

Evergreen Home Care   **Chicago, IL**
Full-Stack Developer   Feb 2022 – Jun 2022
- Developed a responsive website from scratch to completion that helped advertise for businesses
- Utilized **Java Spring Boot** and **MySQL** to incorporate a back-end management system for storing employee data, displaying key metrics, authenticating users, and handling 100+ submissions daily
- Tested and optimized user interface to accomplish compatibility across different devices using **React**
- Deployed website using serverless **AWS Lambda** to ensure low-cost and easy to maintain
- Worked closely with clients to meet project goals and translate business needs into desired functionality

PROJECTS

OptionX
Full-Stack Developer
- Pioneered a cutting-edge website that analyzes 4000+ daily option strategies using Black-Scholes and implied volatility, applying statistical metrics to filter out the most profitable trades.
- Implemented a **Flask** and WebSocket-based (Socket.io) data pipeline to deliver real-time option data for the website's analysis and recommendations.
- Innovated a **React**-based simulator to test the recommendations, generating an impressive **$3,290 (34.5%)** profit and showcasing the effectiveness of the website's strategies.

E-Commerce Website
Full-Stack Developer
- Implemented an E-Commerce website that allows users to browse, add to cart, and purchase 130+ items
- Applied modern UI design and visual effects through Redux and React
- Crafted a sophisticated cloud library with **AWS,** stored and updated items through **MySQL**, and incorporated a payment method system through Stripe
- Optimized overall run time by 55% by limiting query results and image format

JPMorgan Chase & Co. Virtual Program
Full-Stack Developer
- Optimized and updated a new feature on trading dashboard to assist traders in identifying under/over-valued stocks using **Typescript/React** and **Python**
- Visualized historical stock price using JPMC's Perspective tool and added in new functionality allowing traders to adjust data set and initiate critical alerting threshold
- Followed and practiced **Agile** methodology, performed each task under the Scrum software development process

Messaging App
Full-Stack Developer
- Designed a web application that allows users to have low-latency, real-time conversations and group messaging with up to 50 users using modern web socket Socket.IO
- Stored and fetched conversation and image data on **Google Cloud Platform (GCP)**
- Included industry encryption method to ensure security and privacy for the users and data