


# ANGELA WANG

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## Education

### Northeastern University

*Master of Science in Computer Science – Align GPA 3.92*

Sep. 2021 – Expected May 2023

Seattle, WA

### National University of Singapore

*Master of Science GPA 4.00*

Aug. 2020 – May 2021

Singapore

### Jiangnan University

*Bachelor of Engineering GPA 3.61*

Sep. 2016 – May 2020

Wuxi, China

## Relevant Coursework

- Data Structures
- Object-Oriented Design
- Operation Systems
- Database Management
- Web Development
- Cloud Computing
- Distributed Systems
- Privacy Engineering

## Experience

### Amazon, DEX Scout Team

May 2022 – August 2022

*Software Development Engineer Intern*

Seattle, WA, US

- Constructed a visualization web application to track and model the execution of action of Scout and improve the efficiency of developing by 50%.
- Implemented **RESTFUL APIs** using **Node.js** and **Express.js** to built and edit Behavior Tree written in **C++** and built version control by fetching 2300+ versions of behavior tree from Amazon Github.
- Designed and implemented a dashboard using **React** and **TypeScript** and maintained the state with **Redux** architecture to visualize data stored in **Amazon RDS** and search data by version.
- Deploy application on **AWS EC2** to achieve scalability; used **Amazon ElastiCache** to improve response speed; utilized **AWS ELB** for load balancing; scheduled **AWS Lambda** functions to trigger various AWS resources.

### Software Engineer Intern

June 2020 – July 2020

*Yuansheng Biological Engineering Co., Ltd.*

Jiangsu, China

- Use **Vue.js**, **Vuex** bundled with **Webpack** to build dashboard of company website integrated with **Element.ui** and **d3.js** and deploy to the **AWS** for public access.
- Develop **micro services** based on the **Django** framework and build library search functionality for the web application to optimize the manual tagging process using **Elasticsearch**.

### Software Engineer Intern

June 2018 – August 2018

*Kangring Shengnuo Biotechnology Co., Ltd.*

Jiangsu, China

- Applied **jQuery** and **Tableau SDK** to visualize core data from product sales, popularity and ratings for the whole data analysis team.
- Built a data back-end system with **SpringBoot** to extract and clean data from csv files to **MySQL**, supporting the data analysis for over 16,308 beverage products.

## Projects

### Feedback Collection Web Application | Javascript, React, Redux, Node.js, Express.js, MongoDB, Git

June 2021

- Enabled user data storage and survey results in **MongoDB** database by **Express.js** and **Mongoose**; rendered survey results on front-end with **React**, **React-router** and **Redux**.
- Accomplished cookie-based login and registration features deploying **Google OAuth** authentication.
- Utilized the **Stripe API** to handle credit card payment and improve its security for email services.

### Django Based E-commerce Website | Python, Django, Javascript, jQuery Ajax, python, PayPal API

October 2020

- Applied **Docker** and **Nginx** to automatically deploy system on **AWS EC2** to achieve scalability; utilized AWS ELB for load balancing. Created back-end related database using **SQLite** to implement user query and retrieval functions.
- Optimized data retrieval by performing prefetching and caching and replacing inefficient **Django ORM** with raw sql, resulting in an 80 % reduction in number of queries

## Technical Skills

**Languages:** C++, Python, JavaScript, Java, HTML/CSS, Go, Shell, Typescript, PHP

**Frameworks:** React, Redux, Node.js, Express.js, Vue.js, Vuex, Django, Flask, SpringBoot, Spring MVC, Angular, Google Cloud, Express

**Database and Tools:** MySQL, PostgreSQL, MongoDB, Git, Github, AWS, Docker, Heroku, Tableau, AWS S3, AWS Lambda, RDs, DynamoDB, GraphQL