Nanxi(Nancy) Xu

SOFTWARE ENGINEER

Details

38993 Primula Ter Newark, 94560 United States 3012213051 nancyxu94@gmail.com

Links

Linkedin

Personal Page

Github

Skills

JavaScript

Git

HTML & CSS

MySQL

C++

Java

AWS

MongoDB

Dart

Flutter

Machine Learning

Leadership

Hand-on, Fast

Communication

Collaborate

Design, Creative

Languages

English

Chinese

Hobbies

Snowboarding, swimming, badminton, hiking

Education

Master of Computer Science Computer Science (Online), Frostburg State University, Frostburg

JUNE 2020 - MAY 2023

Bachelor's of Science Biochemistry, Frostburg State University, Frostburg

SEPTEMBER 2014 - MAY 2018

Employment History

Laboratory Assistant Manager, BioChain Institute Inc., Newark

JANUARY 2022 - PRESENT

Ensure product quality; ensure on-time delivery; create and update standard operating procedure; follow production line personnel and corresponding products; understand the shipping, receiving, and packing process; train, ISO training, safety training, and regulation training for each employee; monitor equipment maintenance.

Projects

Full Stack Website with APIs and Usability

Created a website by using the AWS platform and services. AWS EC2 instance was used to host the website. The website was developed using the Stack/framework. Usability considerations were built into the website. MongoDB was also used to develop a schema on data stored in MongoDB and Elastic Search.

Pet Foodie

https://nancyxu94.github.io/PetFoodie/index.html)

HTML, CSS, and JavaScript were used to build a website for a pet food. JavaScript is the programming language, we use HTML to structure the site, and we use CSS to design and layout the web page.

Sushi Application - Flutter

Developed a personal project by using Flutter and Dart, combining my passion for culinary arts with mobile app development. Created an immersive and visually appealing interface, allowing users to explore, customize, and track their sushi orders in real time.

Coffee Shop Application - Flutter

Conceptualized and developed a dynamic mobile application for coffee enthusiasts, using Flutter and Dart. Designed to enhance the coffee shop experience, the app features an intuitive interface for exploring the menu, placing orders, and engaging with a community of fellow coffee lovers.

GO-Back-N

Implemented error control protocols by using Stop-And-Wait and Go-Back-N mechanisms. Used segment as an underlying unreliable channel to put protocol data unit in the payload of the UDP segment. Maximum payload size, header size, number of fields, order and size of the different fields, different possible code values for certain fields, and message sequencing. The program is able to communicate with each other based on SAW to SAW and GBN to GBN.

Online Chess Game

Followed all the standard chess rules(castling, pawn promotion, check). Implemented the programs for the chess server and the chess client, which communicated directly using TCP socket.

Battleship Game

MVC Design pattern implementation in the API and Observer Pattern implementation as well as in the Game itself. Though the battleship game code has aspects of MVC, the addition of events and listeners made the design use more of the Observer pattern as the Board was listening for the different events and acting as a controller to switch the different pages. Working with Spring Boot Framework technology, especially with integrating with Swagger UI to provide an easy way to document and experiment with our custom API.