

Gehao (Chris)Yan

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EDUCATION

The Ohio State University

Columbus, OHIO

Master of Science in Electrical and computer Engineering/Graduate Degree

08/2021 - 05/2023

- Relevant courses: Data Structure and Algorithm, Database System, Real Time Robotics, Computer Communication Networks, Mobile Application Development, Introduction to Machine Learning

Hubei University of Technology

Wuhan, CHINA

Bachelor of Science in Communication Engineering/Bachelor Degree

09/2017 - 06/2021

- First Prize Scholarship of Hubei University of Technology
- Relevant courses: Computer Programming(C), Computer Network, Computer Programming(Java)

SKILLS

- Programming Languages: Java, SQL, JavaScript, Matlab, C++, HTML, CSS, C, NoSQL, Python
- Tools: React.js, Node.js, Bootstrap, Json, Git, Mongoose, MongoDB, Spring, IDEA, Android Studio, MySQL, SQLite, Jsp&Servlet, Passport.js, Redis

WORK EXPERIENCE

Industrial Bank

Wuhan, CHINA

Software Development Engineer-Full stack, Full-time Intern

07/2020 - 09/2020

- Designed **RESTful API** and developed a **RESTful Web Service**. Moved data from Fontend to the cloud with **Amazon Simple Storage Service**.
- Coordinated with 10 team members to develop company Website using **React** as Fontend, **Node.js** as Backend.
- Designed user model schema to store user information in object model. Created a **MongoDB** database to save each user object using **Mongoose**.
- Utilized **React Redux** to collect data reducing times of sending GET and POST requests to Backend, which accelerate the project by **20%**.

PROJECT EXPERIENCE

To do list Web Application - [Github](#) - [Website](#)

- To do list project, and added 10+ fancy functionalities; added task to each project, provided priority for each task, and designed **React Redux** storing data to reduce information transferring frequency between components.
- Developed and Implemented function of adding tasks using **React + Bootstrap** framework. Designed user login in interface and added **cookies** into session with **Passport.js**.
- Implemented **Node.js** with **Express** framework as Backend to receive **POST** and **GET** requests and connected database to update data.
- Collected data from Fontend using relevant **REST APIs** and analyzed and processed data using **Mongoose** to connect with database in **MongoDB**.
- Deployed Fontend using Replit and created a database using **MongoDB Atlas** in Cloud based on **AWS(Amazon Web Services)**.

Mobile Application Development: Constellation app

- Designed the App with **Android Studio** including user information page, constellation information and match couple functions.
- Created the database to save constellation information through **SQLite**. Used **MD5** to encode the user password.
- Developed a Content provider to retrieve data from the database.
- Used Fragments, ViewPager, RecyclerView, and WebView to design application fragments.

Diary System - [GitHub](#)

- Developed a dynamic Full-stack web application using **Java** with **JavaScript** for users to create accounts, log in, write, update, search, delete diary, diary types, and change user's information.
- Implemented an user interface by establishing a **JDBC(Java Database Connectivity)** connection to the diary SQL Server database in **MySQL**, executed SQL commands embedded in Java code to query and modify the database, used **Java Server Pages**, and wrote server-side **Java** code to execute Get and Post requests from website.
- Deployed **Ckeditor** to write diaries and used **MD5** to encode password in database.
- Built HTML and CSS pages which could show diaries, diary types and user's information with **Bootstrap**.

HONORS & AWARDS

- National Team First Prize of 2019 China College Students' Electronic Information Innovation Competition.