Yunyi Chi

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Education

Northeastern University **Jan 2022 – May 2024**
M.S. in Computer Science Align | GPA 4.0/4.0 *Seattle, WA*
Relevant Courses: Algorithm, Web Development, Object-Oriented Design, Data Structures

University of Birmingham **Sep 2019 – Sep 2020**
M.S. in Materials Science and Engineering | GPA 3.75/4.0 *Birmingham, UK*

Hefei University of Technology **Sep 2014 – Jul 2018**
B.S. in New Energy Materials and Devices *Anhui, China*

Technical Skills

Languages:	Java, Python, JavaScript, C, HTML, CSS, SQL
Frameworks/Library:	React, Redux, Django, Node.js, Express, Spring, Spring MVC, Spring Boot, MyBatis, Shiro
Database:	PostgreSQL, MongoDB, MySQL, SQLite, Amazon DynamoDB
Tools:	AWS, Git, Linux, Maven, Docker, Kubernetes

Projects Experience

Full Stack/Face Recognition Web Application | Website | GitHub **Aug 2022 – Oct 2022**
- Utilized **HTML/CSS/JavaScript** and **React.js** to implement AJAX based Front-End of a Face Recognition app.
- Built RESTful APIs with **Node.js**, **Express**, and **PostgreSQL** to handle HTTP requests and responses between client and server, followed Unidirectional Data Flow Pattern (Flux Pattern) to achieve a better control and efficiency.
- Implemented user authentication system(register, signin) and enhanced data security by **HTTPS** and **bcrypt** hashing.
- Realized interactive face detection for users by **Clarifai Deep Learning API**, keep track of user's entries and ranking.

Full Stack/MERN Stack Online Movie Review Site | GitHub **Jun 2022 – Aug 2022**
- Designed the front-end with **HTML/CSS/Bootstrap** and **React Hooks**, utilized **React-Router** to create an SPA.
- Developed the MVC(Model-View-Controller) pattern back-end with **Node.js** and **Express**.
- Utilized **MongoDB** to retrieve 23000+ movie data from IMDb, collect movie's reviews and and user's favourite and developed CRUD operations by interacting with database. Created 3 different search modes for user by retrieving movie's id, category and rating respectively in database, improving search accuracy to 100%.
- Implemented user authentication and authorization with credentials service of **Google OAuth API**.

Full Stack/Django based Social Media App | GitHub **Apr 2022 – May 2022**
- Developed a coupled Full Stack Social Media web App with **Django** MVT(Model-View-Template) pattern.
- Realized user authentication by customized **Django-admin** interface and Django Authentication system.
- Utilized Django Model and **SQLite** Database to achieve data migration and association.
- Implemented functionalities like posting messages, like, following, searching, recommending users and editing profile.

Front-End/Robot Friend App | GitHub **Mar 2022 – Apr 2022**
- Built a AJAX based front-end application for displaying random robot cards and searching card with **React**, using **Redux-thunk** and **Redux** for middleware and reducers.
- Utilized **JSONPlaceholder API** and **Robohash API** to grab robot's information and generate random robot cards.

Back-End/Teaching Management System **Feb 2022 – Mar 2022**
- Designed a teaching management system with **Java**, **Spring MVC** and **MySQL**, realized the interaction between back-end and database by **JPA(Java Persistence API)** and **MyBatis**.
- Implemented user authentication system with **Spring Boot** and **Shiro**, designed the scope of permission for each role.

AWS/Turn-based Game **Jan 2022 – Feb 2022**
- Developed a turn-based strategy game 'Nim' on AWS platform, using **Amazon DynamoDB** to store the state of game and **Amazon SNS** to notify players at key points in the game.
- Configured **Amazon Cognito** as the authentication provider for user registration, login, and verification.
- Deployed app on **AWS Lambda** and configured REST API with **Amazon API Gateway** to handle HTTP requests.