Woody (Wancheng) Lin

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EDUCATION

University of Massachusetts Boston   Boston, MA

Bachelor of Computer Science, Minor in Mathematics, Major GPA: (3.72/4.0)   *Sep. 2019 – Dec. 2023*

Relevant Courses: Software Engineering, Database Management, Data Structures and Algorithms, Internetworking

SKILLS

Languages: Java, Python, JavaScript, SQL, Swift, HTML & CSS, C/C++, Kotlin, Bash

Frameworks: Spring Boot, React Native, ReactJS, SwiftUI, Jekyll

Relevant Tools: MongoDB, Git, AWS, Node.js, Miniconda, MySQL, VS Code, Xcode, Android Studio

Certificate: AWS Cloud Practitioner CLF-C02

PROJECTS

LE-V-EL | *GitHub*   Feb. 2023 – May 2023
- Designed a dynamic website showcasing rankings of machine graphical perception algorithms on benchmark datasets using **HTML, CSS, JavaScript,** and **Jekyll Framework.**
- Managed **Python** files using **Miniconda** to ensure smooth execution and mitigate conflicts on the server side.
- Standardized the datasets and improved calculation speed by **40%** on the remote server by employing **scikit-learn (sklearn), numpy,** and **nltk** for efficient data preprocessing and analysis tasks.
- Implemented a robust lock mechanism based on **YAML** configuration file on the school server; prevented the risk of infinite loops and streamlined workflow efficiency during GitHub Action execution.

Automated Twitter Bot | *GitHub*   May 2023 – Jun. 2023
- Developed a Twitter bot based on **AWS EC2** instance to select and upload pictures from a designated database once **every 6** hours (still operational remotely).
- Utilized **Node.js** to acquire the necessary components for implementing a time-based **CronJob**; integrated the **Twitter API** for automated tweeting, optimizing efficiency with **async/await** for handling asynchronous tasks.
- Leveraged **PM2** for real-time monitoring management of the Twitter bot, ensuring consistent performance.
- Published over **1,200** tweets to date and constantly gained followers.

Full-Stack Review Platform | *GitHub*   Oct. 2023 – Dec. 2023
- Crafted a song review application utilizing **Spring Boot** as the back end and **ReactJS** as the front end.
- Utilized **Axios** to fetch K-pop songs and review data from the back-end API in Spring Boot.
- Implemented a **RESTful API** with endpoints to facilitate **CRUD** operations on K-pop contents.
- Leveraged **MongoTemplate** to perform more complex **MongoDB** interactions, such as updating associated K-pop content documents with review IDs when a new review is created.
- Applied dependency injection with **@Autowired** annotations into Service layer when it's initialized.

EXPERIENCE

Open-Source React Native Project Contributor   Mar. 2024 – Current

React Native Apps Community | *GitHub*   *Boston, MA*
- Participated in a curated **React Native** showcase dedicated to open-source applications, garnering more than **1300** Forks and **8500** Stars on GitHub.
- Developed an intuitive and engaging project focusing on **React Router** and **React Hooks** to demonstrate various methods of fetching and displaying data through different API calls.
- Illustrated my application structures and development processes to fellow React Native developers via README.
- Continued to add features and maintained this project to ensure its relevance within the React Native community.

Teaching Assistant   Feb. 2023 - Dec. 2023

University of Massachusetts Boston CS Department   *Boston, MA*
- **CS420 Theory of Computation**, Prof. Chang | **CS310 Data structures and Algorithms**, Prof. Ouyang
- Assisted professor in grading assignments and projects.
- Held office hours to help students with course material and homework assignments.
- Collaborated with fellow TAs to plan instructional activities.