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++, Bash, Racket, R

Frameworks: Spring Boot, ReactJS, SwiftUI, Jekyll

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

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.**
- Managed **Python** files using **Miniconda** to ensure smooth execution and mitigate conflicts on the server side.
- Leveraged **GitHub Workflow** to automate project processes directly within the GitHub repository.
- 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.
- Standardized the datasets and improved calculation speed by **40%** on the school's server by employing **scikit-learn (sklearn), numpy,** and **nltk** for efficient data preprocessing and analysis tasks.

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).
- Implemented a time-based **CronJob** to acquire the necessary components by **Node.js**; 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 **1,000** 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.
- Employed **Lombok** to generate boilerplate code, reducing verbosity in both "Kpop" and "Review" classes.
- Applied dependency injection with **@Autowired** annotations, automatically injecting instances into the "ReviewService" class when it's initialized.

EXPERIENCE

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.
- Communicated with students on Piazza, Blackboard, and via email.

Website Designer | Jul. 2023 – Aug. 2023

Financial Education for Families, Kelcy Ou | *Freelancer* | *Braintree, MA*
- Collaborated with another designer to create a successful personal portfolio website for a financial agent.
- Integrated **Google Domains** for website hosting and employed **ReactJS** to develop interactive user interfaces.
- Ensured website for optimal displaying across all devices.
- Received outstanding feedback from the client upon project completion.