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, TypeScript, SQL, HTML & CSS, C/C++, Bash

Frameworks: ReactJS, React Native, NestJS, Next.js, Spring Boot, Tailwind CSS, Jekyll

Relevant Tools: MongoDB, Git, AWS, Node.js, Miniconda, PostgreSQL, Prisma ORM, Redis, Docker, Jira

Certificate : AWS Cloud Practitioner CLF-C02

Experience

Mobile Application Developer Sep. 2024 – Current
React Native Apps Community | GitHub | Google Play *Boston, MA*

- Developed and published a mobile flashcard application to **Google Play** Store using **TypeScript** and **React Native**, showcasing the ability to manage the full app lifecycle from concept to production release.
- Designed a comprehensive system for users to **create** new flashcards and decks, **edit** existing contents, and **delete** unnecessary items, providing full control over study materials.
- Utilized **SQLite** database for efficient local data management, enabling offline access and ensuring user data persistence across app sessions.
- Implemented smooth card flipping animations and swipe gestures using React Native's **Animated API**, enhancing the app's interactivity and user engagement.

Software Engineering Intern Jun. 2024 - Oct. 2024
Twygs.io *Remote*

- Utilized **TypeScript**, **Node.js**, **React**, and **Next.js** to develop and maintain web application interfaces, and refined the authentication UI designs with **Tailwind CSS**.
- Enhanced the **One-Time Password (OTP)** input system by implementing automatic tabbing between adjacent inputs upon entering a number, streamlining the email verification process.
- Implemented feature to make last name input optional for **Creator/Advertiser** account creation, increasing sign-up flexibility. Modified both backend constraints and frontend validation to support this change.
- Adopted **PostgreSQL** for local database management, including account creation after the email authentication process and data manipulation for testing purposes.

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 **2,000** tweets to date and constantly gained followers.