Jack Bai

Software Developer

Python | React | Node.JS | Java | JavaScript | CSS | HTML | R | SAS | Django
Postman | AWS | C# | Unity | SQL | PostgreSQL | MongoDB | Git | Bash

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EXPERIENCE

OPEN TEXT CORPORATION
Software Engineer | Sep 2022 - Dec 2022

- Effectively debugged API-related issues by inspecting request headers, response status codes, and payload data within Postman, facilitating error identification and resolving bottlenecks.
- Enhanced user experience by implementing robust data validation using Regex on both front-end and back-end of the application, leading to significant reduction in erroneous data and improved data quality.
- Implemented keyboard navigation in React to enhance user experience and meet modern accessibility requirements as well as improving product usability.

RIDECO TRANSIT LABS INC
Full Stack Developer | May 2022 - Sep 2022

- Utilized Python scripts to update configurations in Django for the mobile applications on the App Store to provide an enhanced user experience.
- Collaborated with product managers and stakeholders to refine and update mobile applications designs using CSS, ensuring alignment with project goal and user needs.

DEMATIC VIRTUAL SYSTEMS
Software Engineer | Sep 2021 - Dec 2021

- Led performance analysis leveraging multiple AWS EC2 instances to optimize production and decrease costs by 15%.
- Refactored the testing framework to include data-driven principles for greater adaptability and efficiency.
- Designed UML diagrams to illustrate complex systems and communications between services to revise and improve outdated code to ensure clarity and maintainability for future development.

PROJECTS

GUESS THE CHARACTER APP
React | Node.JS | Express.JS | REST API | MongoDB | Postman | Git

- Independently conceptualized and implemented a web application using the MERN stack.
- Continually updates the project to enhance product customizability as well as integrating new elements of design and engagement.

WINRATE ANALYSIS OF TEAM-BASED ONLINE GAMING
Python | Numpy | Pandas | R Markdown

- Systematically collected and pre-processed over 30,000 online match data from League of Legends through API requests.
- Conducted statistical testing of win rates for online identities in various settings and delivered an informative and visually stunning analysis with breakthroughs supported through data and metrics.

JACKBAI.CA
HTML | CSS | JavaScript | React | Git

- Designed and developed an aesthetically pleasing personal website leveraging React Router to enable seamless navigation.

PENGUIN TROUBLE
Unity | C# | Git

- Created a 2D game using Unity with C# scripts to explore the domain of game development.
- Used OOP principles for maintainable and modular code for future development and revision.

EDUCATION

BACHELOR OF MATHEMATICS HONOURS STATISTICS AT UNIVERSITY OF WATERLOO
University of Waterloo | 2018 - 2023