# Jack Bai

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**Python | React | Node.JS | Java | JavaScript | CSS | HTML | Openshift | Kubernetes | Postman | Insomnia | AWS  | SQL | Bash | Maven | Docker**

## WORK EXPERIENCE

### IBM
Backend Engineer | Apr 2024 - Current

- Regularly produce enterprise distributions of open source software to include security fixes while maintaining backwards compatibility with legacy systems.
- Led the integration of an internal scanning tool to streamline development processes by having cybersecurity scans run automatically in parallel to the build system in over 60 repositories across the organization.
- Lead daily meetings on the security status of our product to assign and delegate work based on severity, attack vectors, exploitability, and CVSS parameters.
- Documented and delivered an investigation for the use of Dapr (distributed application runtime) as a means to enhance security, provide additional consistency with messaging in the persistence layer and explore serverless architecture.
- Refactored Java code to eliminate security vulnerabilities, and improve maintainability, while ensuring compatibility between industry standard libraries and legacy systems.

### 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.

### 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.

## PROJECTS

### 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.

## EDUCATION

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