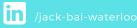# JACK BAI

DEV

Python | R | R Markdown
LaTeX | Django | Bash
Git | SQL | Spring | React

/jack-bai-waterloo

/JackBai2000

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EXPERIENCE

OPEN TEXT CORPORATION
Software Engineer | Sep 2022 - Dec 2022

- Researched and developed a Spring, React, and PostgreSQL based application as a proof of concept for an internal service
- Collaborated with senior developers to refactor API's improving 1000+ clients experience with the Case Management Application
- Implemented keyboard navigation in React to enhance user experience and meet modern accessibility requirements and improving product usability

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

- Designed and implemented 100+ assets in Django in accordance to 1000+ clients needs contributing to customer satisfaction and deployment of mobile applications on App Store
- Engaged in regular discussion on possible solutions with the product manager and engineering team to reach conclusive and optimal results

DEMATIC VIRTUAL SYSTEMS
DVF Software Engineer | Sep 2021 - Dec 2021

- Lead performance analysis within 99% confidence leveraging multiple AWS EC2 instances to optimize production costs and time for future development
- Refactored testing framework to include Data Driven principles for efficient adaptability and cleaner code management
- Designed UML diagrams to illustrate complex systems and communications between services to revise and improve outdated code to ensure code clarity and maintainability for future development

UNIVERSITY OF WATERLOO
CS 116 Instructional Support Assistant | May 2020 - Aug 2020

- Helped students conceptually understand high-level data structures through 110+ hours of individualized instruction and collaborative learning
- Diversified Python knowledge by leading students to reach a multitude of different solutions, enhancing and reinforcing multiple pathways to success

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.JS | Git

- Ongoing and frequently updated website about personal hobbies, interest, and projects to highlight milestones and refine front end development skills
- Initiated to apply learnings from a Udemy course on React

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