

Lok Bond (James) WU

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Transitioning from civil engineering to computer science, I leverage analytical problem-solving and full-stack development skills in React, JavaScript, and Firebase to build user-focused web applications. Leading frontend development for TalkitOut's bilingual mental health platform, I deliver accessible, high-impact solutions through collaboration and technical innovation.



SKILLS

- **Frontend:** HTML, CSS, JavaScript, TypeScript, React, Material-UI, i18next
- **Backend:** Node.js, Firebase (Database, Hosting, Authentication, Functions)
- **Tools:** Git, GitHub (CI/CD, Version Control), VS Code, Postman
- **Databases:** Firestore, NoSQL
- **Other:** Bilingual Content Management (English/Chinese), WCAG Accessibility, Problem-Solving, Team Collaboration, Leadership

EXPERIENCES

TalkitOut

Apr 2025 – Current

Frontend Web Developer

- Built frontend development for a bilingual (English/Chinese) Squarespace website using React and i18next, implementing a language toggle to enhance accessibility.
- Collaborated with a team on UI/UX reviews and Git repository setup, driving completion of frontend milestones under tight deadlines
- Engineered a dynamic filter system using JavaScript, React, and Material-UI (MUI), enabling clients to search counselors by criteria such as gender, location, and specialization, improving user experience and engagement.
- Designed responsive components for Homepage, Counselor Registration, Counselor Profile, Search, Resources pages, integrating with backend APIs to display dynamic content.
- Optimized website performance and accessibility, delivering a professional platform critical to the NGO's mission of connecting LGBTQ+ clients with affirmative counselors.

UBC integrated Transportation Research (UiTR) Laboratory

Jan 2022 – May 2022

Research Assistant (Web Development)

- Maintained and updated a professor's academic website using WordPress, implementing custom CSS to enhance user interface
- Communicated research findings and web updates to stakeholders, ensuring alignment with requirements and accessibility standards.
- Managed content updates and plugin configurations, ensuring seamless operation and security of the WordPress platform.

GeoPacific Consultants Ltd.

Jul 2024 – Aug 2024

Engineering in Training

- Analyzed geotechnical data for 5+ projects, preparing reports that informed infrastructure design decisions.
- Communicated findings to stakeholders via professional memos, ensuring clarity and alignment with project goals.

Wilson & Associates Limited

Aug 2022 – Aug 2023

Structural Engineering Intern

- Optimized Revit models and generated AutoCAD drawings for 10+ reinforced concrete designs, ensuring compliance with building codes.
- Collaborated with engineers to analyze structural forces, resolving design challenges for 3 major projects.

TECHNICAL PROJECTS

Buffalo-Print (buffalo-keychain.web.app)

Feb 2025 – Mar 2025

- Built a full-stack e-commerce web app using React, Firebase, and Stripe, supporting 50+ concurrent users with 99% uptime.
- Implemented user authentication, dynamic product catalog, shopping cart, checkout, and order history, enhancing user experience.
- Leveraged Firebase to implement secure hosting, robust user authentication, and an efficient database infrastructure.
- Optimized Firestore collections for efficient data retrieval
- Configured GitHub Actions for automated CI/CD, streamlining deployment of updates.
- Developed Firebase Functions to handle backend payment processing with Stripe, ensuring secure and scalable transactions.

Quizasy (quizasy-dee17.web.app)

Jan 2025 – Feb 2025

- Developed a responsive full-stack quiz app using React and Firebase, enabling users to create and take quizzes with real-time feedback
- Implemented email and Google sign-in authentication, managing user's accounts securely.
- Designed Firestore collections for efficient data management, supporting seamless quiz creation
- Built an Auth.context component for global state management, improving application scalability.
- Automated deployment with GitHub Actions, ensuring rapid updates and reliability.

Personal Portfolio (jameswuu.netlify.app)

Jan 2025

- Designed and deployed a responsive portfolio website using React and Netlify, showcasing technical projects and skills.
- Optimized for SEO and WCAG accessibility, achieving a 85% Lighthouse performance score

EDUCATION AND CERTIFICATIONS

Harvard X

CS50x: CS50's Introduction to Computer Science

Aug 2024 – Oct 2024

The University of British Columbia

Bachelor of Applied Science, Civil Engineering (Distinction)
Dean's List: 2019–2024

Sep 2019 – Jun 2024