# KE(ALEX) SHANG

778-318-9985

Software Engineer

Vancouver, BC

[Portfolio](#) | [Github](#) | [LinkedIn](#)

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## TECHNICAL SKILLS

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| **Languages** | Java, Spring Boot, JavaScript, TypeScript, Angular, React, C#, C, C++, Python, R |
| **Databases** | SQL, MySQL, MongoDB, PostgreSQL |
| **Tool/Environment** | VSCode, Docker, Postman, CI/CD, Linux, IntelliJ, Gitlab, GitHub, Unity, Bootstrap |
| **Competencies** | OOP, Debugging, jQuery, Git, Node.js, Express.js, JSON, Unit Testing, AWS, REST |

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## CERTIFICATIONS

[The Complete 2024 Web Development Bootcamp](#) - Udemy                                     June 2024

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## WORK EXPERIENCE

***Smile Digital Health (Co-op Software Developer)***                                     Sep 2021- Sep 2023

- Developed [payer-member-portal](#) and maintained responsive web applications using **Angular**.
- **Collaborated with designers and back-end developers** to implement UI/UX designs and ensure seamless integration resulting in a cohesive user experience.
- **Optimized websites for performance and speed** by implementing image optimization techniques, minimizing API requests, and utilizing code-splitting, resulting in a **30%** reduction in page load times and improved server-side pagination for enhanced user experience.
- Performed comprehensive **unit testing** and debugging utilizing browser developer tools and automated testing frameworks, resulting in **0%** glitch applications and **90%** code coverage.
- **Led unit testing presentation**, enhancing team's understanding of testing principles.

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## PERSONAL PROJECTS

***To-Do List (Node.js, Express.js, PostgreSQL, [Demo](#))***                             May 2024 – July 2024

- Developed a **full-stack to-do list application** using front-end and back-end technologies.
- Implemented **RESTful API** endpoints to handle CRUD operations (Create, Read, Update, Delete) for managing to-do items in a PostgreSQL database.
- Designed and developed server-side logic for handling user requests and database interactions, resulting in efficient and responsive application performance.
- Utilized **body-parser middleware** for parsing incoming request bodies and served static files efficiently, enhancing the application's ability to process user inputs.

***Keeper App (JavaScript, React, [Demo](#))***                                           Jan 2024 – Mar 2024

- Developed a responsive web application for managing personal notes and tasks.
- Utilized React.js to create **dynamic components**: the note creation area, individual note displays, and interactive UI elements like expandable text inputs and floating action buttons.
- Managed application state using React's **useState** hook to handle operations like adding, deleting, and displaying notes, enhancing the user experience with real-time updates.
- Implemented functionalities for users to dynamically add and remove notes with immediate visual feedback, ensuring a seamless and interactive user experience.

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## EDUCATION

**Bachelor of Science (major: Mathematics)**                                             Sep 2019 – May 2024

University of British Columbia, Vancouver.