KE(ALEX) SHANG

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Software Engineer / Front-End Developer   Vancouver, BC

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TECHNICAL SKILLS   *Currently acquiring

Languages	Java, JavaScript, TypeScript, Angular*, React*, C#, C, C++, Python, R
Databases	SQL, MySQL, MongoDB*
Tool/Environment	VSCode, Docker, Postman, Linux, IntelliJ, Gitlab, GitHub, Unity, Notepad++
Competencies	OOP Programming, Debugging, jQuery, Git, JSON, Unit Testing, AWS*, REST*

WORK EXPERIENCE

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

- Developed and maintained responsive web applications using Angular and TypeScript.
- 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.
- Collaborated with the project management team to successfully deliver all projects on time.
- Stayed up to date with emerging technologies and industry trends to enhance development.

PERSONAL PROJECTS

Recipe-Managing App (Typescript, Angular)   Oct 2021 – Apr 2022

- Developed the application in Angular framework (demo: https://tinyurl.com/4ken4tu4).
- Used data-binding to manage data inside the App.
- Shared variables between different components by using services.
- Applied observables to some services when changes are made to specific components.
- Enhanced the form by adding validating, updating, and syncing HTML with the form.
- Added preset elements when the App is rendering for the first time.
- Allowed the user to edit, delete, and add to the shopping list of any recipes.

Technologies: TypeScript, Visual Studio Code.

Budget-Controller (JavaScript)   Nov 2020 – Jan 2021

- Implemented the application in JavaScript (demo: https://tinyurl.com/9etw5beb)
- Manipulated event listeners so the user could click some buttons.
- Showed the income in green and expenses in red to visualize the difference.
- Avoided crashes by making a UML sequence diagram to analyze the current structure of the program when adding new functionality.

Technologies: CSS, JS, HTML, Notepad++

EDUCATION

BSc (major: Mathematics)   Sep 2019 – May 2024

University of British Columbia, Vancouver.