

Kyle Zhao

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Education

Simon Fraser University

Bachelor of Science in Interactive Art and Technology

Burnaby, BC

Sep 2021 – Present

Experience

Frontend Developer and UI/UX Designer

Nov 2023 – Present

SFU Surge Projects

Burnaby, BC

- Leading the UI/UX design for 'SFU myConnect,' a collaborative effort in enhancing student social activity and engagement.
- Informing decisions with 2022 survey data on student social life provided by SFU Institutional Research and Planning.
- Developing the dashboard frontend using React and Tailwind CSS based on the Figma prototype.

Graphic Designer

Aug 2022 – Present

SFU Esports Association

Burnaby, BC

- Creating social media and event visuals for a 3,600-member Discord community in collaboration with club executives.
- Produced 40+ tailored social media banners using Adobe Photoshop to improve SFU competitive esports players' brand presence while maintaining active communication with players for feedback and customization.
- Creating specialized graphics for cross-university collaborations working alongside event organizers.

Projects

Histopathological Lung Image Classification & Segmentation via ML | PyTorch

Mar 2024 – Present

- Achieved 97% accuracy in differentiating normal tissue from two closely related cancer types, integrating cell counting and segmentation.
- Fine-tuned model preprocessing and learning rates, utilizing a confusion matrix, f1-score, precision, and recall metrics to debug classification bias.
- Managed GitHub repository for collaboration and resolved merge conflicts, ensuring project continuity.

Resume API | MongoDB, Express, Node, Vercel, Postman

Oct 2023 – Present

- Deployed a web-based API for resume management with create, read, update, and delete functionalities utilizing MongoDB, enabling seamless data interaction for resume entries.
- Ensured data security through key authentication, allowing only authorized access to data modification endpoints.
- Dedicated one month to this project and am currently extending its frontend functionality with the Angular framework.

Roamfy | PHP, MySQL, jQuery, HTML, CSS, Geoapify API

Dec 2023

- Designed then implemented entity relation diagram, and enhanced user experience through a responsive web interface developed with PHP and jQuery.
- Implemented prepared statements and input validation to safeguard against injection attacks.
- Integrated an external API for autofilling locations, streamlining user input and improving overall usability.

Va11-halla Fansite | Figma, React, Firebase, Tailwind, Three.js, Python

Aug 2023

- Redesigned the Va11-halla game's recipe UI in Figma for better readability and user experience, focusing on scannability and simplified comparison with vibrant cyberpunk aesthetics.
- Implemented a dynamic search and filter system using React tools for unnecessary re-renders ensuring UI performance.
- Used React context state management to streamline data flow and user authentication across the application, ensuring a cohesive user experience.
- Automated the addition of 29 drink recipes to Firestore using Python.

Technical Skills

Languages: HTML/CSS, JavaScript, TypeScript, PHP, Python, C, Java

Frameworks and Libraries: React, Tailwind, jQuery, AJAX, D3.js, Express.js, Node.js, Flask

Databases: Firebase, MongoDB, MySQL

Other Technologies: Pytorch, MATLAB, Android

Design Tools: Figma, Adobe Photoshop