

# JOSIANN ZHOU

778-302-3569 | zhou.josi@gmail.com | linkedin.com/in/josiannzhou | github.com/josizhou | https://www.josiannzhou.dev/

## SKILLS

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**Programming Languages:** JavaScript, TypeScript, Python, C, HTML, CSS

**Tools & Frameworks:** ReactJS, NodeJS, MongoDB, AWS (DynamoDB), ExpressJS, NextJS, Git, Selenium, Jest, Apollo GraphQL

**Languages:** Native fluency in Spanish, Cantonese, French, and English

## WORK EXPERIENCE

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### Associate Software Developer

*Konrad Group*

May 2024 - present

*Vancouver, BC*

- Supported the development and release of a new loyalty program for a major airline which saw 6 Million users in the first 24 hours
- Focused on delivering a smooth user experience by completing 156 bug tickets over a 6-month engagement and providing the final QA sign off before release
- Leveraged Vite and React to build a classification system with pagination, search, filtering, and components from scratch
- Developed applications with a focus on accessibility and responsiveness to media sizes using SASS and CSS Grid
- Introduced testing to a client project and brought test coverage from 0 to 80% by writing 204 unit tests in 1 month - wrote Jest unit tests, API microservice integration tests, and Express route tests with SuperTest

### Web Developer Co-op

*Invoke Media*

May 2022 - Aug 2022

*Vancouver, BC*

- Reduced live stream switching latency by 60% by restructuring components using JavaScript and React
- Identified state management issues in 2 key component trees and outlined a major refactor to unblock product roadmap
- Implemented interim fix and reduced tech debt by using Context to resolve 3 bugs and build 2 features by term deadline
- Reduced video connection time by 10s using GraphQL, Apollo Client, DynamoDB, and Pulumi infrastructure
- Debugged web application using Chrome and Safari browser developer tools to ensure cross-browser compatibility
- Updated web styling and layout using Tailwind CSS and React Native for mobile app experience

### Co-op Developer, Clients, Front End Technologies

*Kinaxis Inc.*

Jan 2022 - Apr 2022

*Ottawa, ON*

- Developed web application features using asynchronous programming with Typescript, React, C#, and SQL
- Created standardized reusable and screen reader accessible User Interface components in a Storybook component library
- Completed full feature development processes for 6 shortcuts, wrote acceptance criteria and estimated complexity
- Resolved +20 UI bugs and ensured 90% testing coverage for new features by writing Jest unit tests

## PROJECTS

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### Digital Art Glove - [Demo](#)

Sep 2022 - Apr 2023

- Built a digital canvas app using NextJS and P5 JS which paired with a bluetooth sensor glove to translate motion into art
- Leveraged OpenCV and MediaPipe Hands to track hand position and worked on line smoothing of tracked points
- Communicated computer vision and sensor data at 15 MPS using WebSockets for seamless user drawing experience
- Experimented with Python multiprocessing and multithreading to improve data transfer efficiency

### Overlap, 2021 IGEN Design and Innovation Award - [Demo](#)

Sep 2020 - Apr 2021

- Led a team of 6 to create a group playlist generation and music data visualization web app using Spotify API
- Developed the MERN stack webapp's frontend in JavaScript using HTML, CSS, Redux, and React
- Conducted 10 week-long sprints using Jira and Agile Methodology to work with the backend's REST API
- Deployed webapp using Amazon Web Services when implementation was complete and matched the Figma wireframes

## EDUCATION

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### University of British Columbia

B.A.Sc. in Integrated Engineering, *Dean's Honour*

Major in Computer Engineering, Minor in Electrical Engineering

May 2023

*Vancouver, BC*