

Chaewon Kim

cheawon0319@gmail.com | +1 236-866-3144

[github](#) | [linkedin](#) | [portfolio](#)

SKILLS

Programming Languages	Javascript C++ C Python HTML/CSS
Technologies and Tools	React Node.js Redux Express Vite MongoDB NoSQL OOP MicroServices web-socket Git Bootstrap Figma Unit Testing Integration Testing Jest Vitest E2E Testing Playwright Cypress CI/CD Github Actions Cloud Computing Google Cloud Digital Ocean WordPress MySQL Postman RESTful APIs CORS
Languages	Korean (Native) English (Professional)

TEAM PROJECTS

YVR Traffic

Oct 2023 - Present

Frontend Developer

- Collaborated on a website for BC residents showing live traffic conditions using highway cameras and geolocation.
- Integrated **Google Maps API** via **Google Cloud** to display the user's real-time location with a dynamic blue position marker.
- Collaborated closely with backend developers to integrate frontend features with real-time location data, enabling geolocation tracking and route rendering via Google Maps API.

Smart Diagnosis (Figma Design Project)

Sep 2024 - Dec 2024

Team Leader

- Led a UI/UX design team to prototype a smart healthcare app for self-diagnosis, medication suggestions, and appointments.
- Managed task distribution, timeline planning, and led final project presentation.
- Applied **User-Centered Design** and **iterative design process**, including research, multiple prototype-feedback loops, and final UI refinement.
- Created high-fidelity mockups and user flows using **Figma**.

PERSONAL PROJECTS

AI Chat App

Full Stack Developer

- Developed a conversational AI website using **React (Vite)** for frontend and **Node.js/Express** for backend, integrating **OpenAI's GPT-3.5 Turbo API** for context-aware responses.
- Deployed backend on a **DigitalOcean** Droplet with **NGINX** reverse proxy, **PM2** for process management, **HTTPS** via Let's Encrypt, and frontend on Vercel with custom domain *api.chaewon.ca*.
- Secured API communication using **Axios**, **CORS** configuration, and environment-based **.env** management for backend and frontend.
- Designed a responsive **Bootstrap**-based UI with **React Markdown**, smooth **CSS** transitions, and real-time message rendering.
- Set up **CI/CD** pipelines using **GitHub Actions** for automated testing and deployment.

Real-Time Collaborative Notes App

Full Stack Developer

- Developed a multi-user real-time notes web application with collaborative editing **React (Vite)** for frontend and **Node.js/Express** for backend.
- Deployed backend on a **DigitalOcean** Droplet with **NGINX** reverse proxy, **PM2** for process management, **HTTPS** via Let's Encrypt, and frontend on Vercel with custom domain *note-api.chaewon.ca*.
- Used TipTap, Yjs, and Hocuspocus server(**Websocket**) to manage presence indicators and **Socket.IO** for real-time note updates.
- Built and managed backend services with **Node.js**, **Express**, **JWT authentication**, and **MongoDB (Mongoose)** for storing notes and shared access roles.
- Managed client-side state using **Redux Toolkit**, and implemented responsive UI with **Bootstrap** and custom **CSS**.
- Set up **CI/CD** pipelines using **GitHub Actions** for automated testing and deployment.

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PERSONAL PROJECTS

Portfolio Website

Cloud DevOps, Web Developer

- Deployed a custom **WordPress** portfolio on a **DigitalOcean** Kubernetes Cluster, using **PVCs** for **MySQL** and content persistence.
- Wrote **Kubernetes** configuration files (*manifest.yaml*) to automate **HTTPS** setup with cert-manager and Let's Encrypt using a ClusterIssuer.
- Configured **NGINX** Ingress Controller with Ingress rules to expose WordPress at *www.chaewon.ca*, securing traffic over **HTTPS**.
- Managed DNS on **DigitalOcean** with A record routing, and customized **WordPress Plugin** with **PHP**, **Javascript**, and **CSS** to add dark mode, responsive UI, and dynamic resume sections.

C++ SDL2 Game Projects

Developer

- Built classic games like Pong and Snake using **C++** and **SDL2**, focusing on game loop design, rendering, and user input.
- Applied **object-oriented principles** for modular game structure (Game Engine, Player, Ball, etc.).
- Integrated basic sound effects and scorekeeping, and packaged builds for macOS.

EDUCATION

Diploma in Computer Science

Douglas College

Sep 2022 - Feb 2025

New Westminster, Canada