

# Kyle Leung

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## WORK EXPERIENCE

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**Web Developer** | *The Guide Network*

October 2023 – Present

- Built and updated a client-facing analytics page using **Next.js**, **React**, **Chakra UI**, **Chart.js** to display data interactively and improve usability.
- Updated meta tags and Open Graph settings to enhance **SEO** and social media link previews.
- Created backend **Django** API routes that allow clients to log and track their activity through the platform.
- Contributed to the design and structure of the website's Help page to improve access to support content.

## EDUCATION

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**M.S. Computer Science**

Expected June 2026

University of Colorado Boulder, Boulder, CO

**B.A. in Geography: Data Science**

June 2023

University of Washington, Seattle, WA

GPA: 3.88/4.0

## PROGRAMMING PROJECTS

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**Package Tracker** | *Next.js, React, Typescript, Tailwind, Mapbox, Firebase, Auth0*

- Collaborated in a group of three to build a full-stack web application that won first place overall in the TransportHacks hackathon hosted by Major League Hacking. The web app provides real-time visualization of package locations, status updates, a review system for mail carriers, and user authentication.
- Implemented the user authentication using **Auth0** as well as maps of current package location using **Mapbox**.

**Personal Chatbot** | *FastAPI, Python, Next.js, React, MongoDB*

- Constructed a full-stack chatbot web application that answers questions about myself and learns to answer more questions as the user continues chatting with it.
- Facilitated effortless data retrieval in the front-end by integrating the **MongoDB** database using pymongo within FastAPI RESTful API routes allowing for read and write operations.

**Replayed** | *TypeScript, SvelteKit, Tailwind, Chart.js, Supabase, SQL*

- Coordinated with a team of three to build a full-stack web application game that quizzes users based on videos from popular video games with multiple game modes. The app includes user interactivity through a comment section and video upload function.
- Designed and implemented the **UI/UX** for the traditional game mode and the charts.
- Integrated the REST api backend to append and update the database.

**Web Development Evaluator** | *NextJS, React, Type Script, TailwindCSS, Chart.js, Python*

- Collaborated with a partner to build a web application that visualizes sentiment and statistics data for over 90 different web development technologies. Gathered and analyzed data sets consisting of over 48,000 tweets.
- Streamlined data visualization of data in the form of charts and graphs using Chart.js.

**PokeMart E-commerce** | *ReactJS, Express, MongoDB, Node.js, TypeScript, Stripe*

- Translated the PokeMart store from the Pokemon games into a full-stack e-commerce web application. The site sells pokeballs and potions from the game.
- Designed and built a REST backend API to connect with the database in order to modify item stock and user login data.
- Implemented the UI/UX in the frontend which includes a cart system, checkout system using **stripe**, and a login function.

## TECHNICAL SKILLS

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**Programming Languages** | *JavaScript ES6, TypeScript, Python, Java, R, HTML, CSS, SQL, Bash, Rust, Markdown*

**Frameworks** | *React.js, Next.js, Tailwind, Svelte, Express, Django, Tauri, FastAPI, Three.js, SvelteKit, Vue.js, Spring Boot*

**Tools** | *Git, MongoDB, Supabase, QGIS, SQLite, Microsoft Azure, NodeJS (NPM), Vite, PostgreSQL, Linux, Junit, Jest, Redux*