Elliot Saha

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EDUCATION

University of British Columbia   **Sep. 2023 - Apr. 2027**
Bachelor of Science in Computer Science   *Vancouver, BC*

EXPERIENCE

Technical Lead & Full Stack Developer   **Oct. 2023 – Present**
UBC Computer Science Student Society
- Spearheaded a team of 8 developers in a creating a website to view and purchase tickets for UBC tennis events.
- Initiated and architected the project using NextJS 13, Chakra UI, MongoDB, Upstash with Redis, and Contentful CMS, laying the foundation for a scalable and responsive platform.
- Seamlessly integrated Stripe for secure payment processing and employed Lucia authentication and OAuth 2.0 to ensure robust security.
- Implemented the Instagram Graph API with React Query and Upstash to efficiently fetch and cache posts from the project's dedicated social media account, transitioning from the API's standard rate limit of 200 requests per hour to a significantly enhanced daily limit of 10,000 requests.

Founder & Full Stack Developer   **Jul. 2023 – Jan. 2024**
Bridges - Canadian Hydrogen B2B Platform
- Developed a social networking platform for green energy companies, enhancing collaboration by facilitating connections and sharing team contact details, using NextJS, MongoDB and Typescript.
- Constructed a comprehensive six-step multi-form for company registration, featuring over 95 inputs, including street address validation via the Google Maps API and a company logo upload capability using UploadThing. The architecture of the form involved separate forms for each step, with global aggregation and validation of all values required before proceeding to guarantee a seamless user experience.

Component Library Developer   **Aug. 2022 – Jun. 2023**
DecaUI
- Engineered a strongly typed polymorphic React component library using TypeScript, StitchesJS, and React-Spring, complete with comprehensive documentation to facilitate ease of use and adaptability.
- Crafted over 400+ robust tests with Jest and Cypress for component integrity, ensuring stability and reliability across the library following updates or feature additions.
- Leveraged Storybook to rigorously test components for WCAG accessibility compliance while employing TypeDoc for detailed documentation of type interfaces and component props.

Full Stack Developer   **Sep. 2021 – Jan. 2022**
Film & Videography Portfolio - Client
- Employed Styled Components and Styled System to maintain consistency in theme properties across the application.
- Implemented Netlify Forms to automate the distribution of contact messages to the client's email.
- Utilized the YouTube API to seamlessly retrieve project videos from the client's personal YouTube playlist.

Full Stack Developer   **Nov. 2020 – May 2021**
MyHomely - Real Estate Startup
- Worked with a team of five developers to design an innovative online platform for home buying, featuring a seamless process for exchanging and editing e-contracts, allowing a digital negotiation experience.
- Created an authentication system from scratch using Express.js and MongoDB, incorporating JWT tokens and Joi schema validation.
- Utilized the Google Maps API for location validation, displaying real estate listings on an interactive map, and calculating distances to local schools and universities, showcasing various transportation options.

AWARDS

Silver Medal, Skills Canada   **May 2022**
National Competition
- Completed an assortment of problems spanning from debugging PHP applications with intricate SQL foreign key relationships to developing pages using jQuery and Bootstrap.