Harjot Singh | harjotsk03@gmail.com | (778) 809-1405

https://github.com/harjotsk03 | https://www.linkedin.com/in/harjotsingh7 | https://www.harjotsinghkooner.com/

Languages: **JavaScript**, **Java**, C++, TypeScript, HTML, CSS, **Python**

Tool: **React**, NodeJS, MongoDB, Tailwind CSS, **REST APIs**, AWS S3, Flask, Figma, Postman, Git, Github, **Redux**

Skills: **User Experience Design**, Problem Solving, Creativity, Adaptability, Object Oriented Programming

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Education

Bsc. Computer Science & Interactive Technology, Simon Fraser University — September 2021 - May 2026

Technical Experience

Director of Web Development, SFU Robot Soccer — February 2024 - Present

- **Doubled user engagement** & significantly improved mobile accessibility by implementing responsive UI
- Enhanced website performance by **reducing load times by 75%** through utilization of Vercel for hosting

Student Developer, SFU Computing Science Student Society — January 2024 - Present

- Elevated user experience and usability by redesigning all UI components across the site making it cohesive
- **Improved development efficiency by 72%** through developers using these components with params
- Enhanced **maintainability & scalability** by implementing best practices for **code design and system design**

Projects

Study Spotr — August 2024 - Present

React, Google Maps API, NodeJS, JWT, MongoDB, ExpressJS

- Full stack application to easily find places to study or work near users location or anywhere in the world
- Integrated **Google Maps API** to display interactive maps and location markers
- Achieved **88% reduction data fetch times** by using React Hooks & handling API requests using Axios
- 78% faster response times by **optimizing backend APIs** performance with efficient database queries & middleware
- Implemented best practices in **front-end architecture**, for performance, security, and usability

SFU Robot Soccer Website — January 2024 - Present

ReactJS, Google Firebase, TailwindCSS, JavaScript

- Utilized **React Hooks** to efficiently grab and manage information from Firebase & enabled **real-time data fetching**
- Optimized database queries to **reduce data retrieval times by 95%**
- **Increased website traffic by 55%** through improved design and functionality

EcoGrow — July 2024 - August 2024

Java

- Garden simulation game designed to provide entertainment to users through playful interactions
- **Zero code redundancy** through use of **encapsulation** to safeguard data in **abstract classes** & develop interfaces
- Implemented **Polymorphism** to allow dynamic method binding, enhancing code reusability and extensibility.

Pharmabotics — May 2024 - August 2024

ReactJS, TailwindCSS, NodeJS, Express, MongoDB, C++, Arduino

- Improve medicine dispensing & accuracy with automated dispenser synced to database & secure interface
- Allowed for efficient **CRUD** actions with a professional dashboard style user interface
- Achieved **84% accuracy in sensor readings** and responses from 6 integrated sensors and actuators
- Developed **C++** application to facilitate real-time control and monitoring of 6 hardware components
- **Improved data handling performance by 95%** through optimized queries and state management