



SAHARAH BAINS

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

TECHNICAL SKILLS

Programming : Java, Python, C++, JavaScript, HTML, CSS, React, Node, Express, SwiftUI
Tools/Environment: : GitHub, MongoDB, JUnit, Figma

EDUCATION

Bachelor of Computer Science (BCS) - University of British Columbia, Vancouver Sep 2023 – Present

BSc, Biology - University of British Columbia, Vancouver Sep 2019 – May 2023

TECHNICAL PROJECTS

beeFit – youCode Hackathon *SwiftUI* Apr 2024

- Designed and developed a mobile iOS app using SwiftUI that integrates fitness plans and retail rewards systems.
- When users start their daily workout, their movement is tracked by the Core Motion Activity Manager framework, and they are awarded points, which can then be redeemed in stores for discounts and deals.
- During a 24-hour hackathon, designed the UI/UX in Figma and implemented the frontend in SwiftUI, while collaborating with three teammates using GitHub and clear code documentation.

Reader's Room – Academic Project *Java, Java Swing, JUnit* Feb – Apr 2024

- Developed a GUI book logging system using Java and Java Swing, allowing users to catalog personal libraries by adding new books, viewing libraries, and rating books through an intuitive user interface.
- Used UML to create the top-level view of the project and applied OOP principles to create classes and class structures by applying design patterns.
- Implemented data persistence using JSON to store and retrieve user information.
- Applied TDD approach by writing extensive JUnit tests; identified, debugged, and fixed bugs to create an error free application.

SwipeBright – cmd-f Hackathon *MongoDB, Express, React, Node* Mar 2024

- Developed a web application for students to find peer tutoring support by swiping on user profiles and chat with their matched users, as a means of enhancing educational equity.
- Responsible for frontend implementation using ReactJS and CSS to create multiple pages including account login, account data entry, and the swiping and chat interfaces.
- Assisted in the implementation of real-time chat functionality, using data stored in MongoDB database.

Mind Match – nw HackCamp *HTML, CSS, JavaScript* Nov 2023

- Collaborated with a partner to develop a tool that matches users to therapists based on personalized needs.
- Users may select multiple mental health concerns and they are directed to a page of health professionals that specialize in those areas, therefore making these services more accessible.
- Responsible for prototyping in Figma and then UI implementation using HTML, CSS, and JavaScript.

WORK EXPERIENCE

Web Developer – West Coast Auto Detailing Mar 2024 – Present

- Designing and developing custom React components tailored to the business owner's specific requirements.
- Implementing eye-catching UI/UX designs that match the company's style to enhance user engagement.
- Optimizing website performance through code refactoring and performance tuning techniques.
- Will be providing ongoing maintenance and support, to ensure the stability of the website after deployment.

Research Assistant - UBC Life Science Institute

Jan 2022 – May 2023

- Independently developed assays for testing gene functionality in the model organism *Drosophila melanogaster*, using methods such as GAL4/UAS system, RNAi, and various genetic interactions.
- Efficiently completed PCR and DNA cloning with high precision, while maintaining a sterile work environment.
- Created graphical data and completed statistical analyses, using R and Python.
- Prepared written and visual progress reports and presented data to multiple research teams.

Patient Clerk – Fraser Health Authority

Mar 2021 – Aug 2021

- Managed and screened large crowds of patients for COVID-19 symptoms and vaccine eligibility.
- Worked closely with health care professionals and recorded detailed patient information, including vaccination status, record of informed consent, and medical history.
- Input information into a provincial health database and organized inventory data in Excel.

Pharmacy Assistant – Bains Pharmacy

Apr 2019 – Aug 2019

- Maintained efficiency in a fast-paced environment by preparing invoices, scanning prescriptions, and updating patient records.
- Greeted a diverse population of patients, managed appointment schedules, and communicated in a friendly and professional manner.

VOLUNTEER WORK EXPERIENCE

Zone Captain - BC Children's Hospital Foundation Race for the Kids

Jun 2017 - Present

- Organized and supervised activities for the annual RBC Race for the Kids event.
- Acted as a liaison between committee members and volunteers to run the event smoothly.
- Prepared materials and planned activities in the months prior to the event.

Student Volunteer - UBC Cancer Association

Sep 2021 – Jan 2023

- Facilitated fundraising events including the annual Relay for Life in support of the Canadian Cancer Society.
 - Attended meetings to help the club plan events to provide information about cancer-related issues on campus.
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