

# Sahib Singh

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 sahib-singh-malhotra

## SUMMARY

Junior Software QA and Systems Testing enthusiast with hands-on experience in web and embedded application testing, basic networking, and Linux environments. Adept at writing test cases, working in cross-functional teams, and using version control and CI/CD tools. Passionate about robotics, system reliability, and quality engineering in complex environments.

## WORK EXPERIENCE

### Georgian College

September 2024 - December 2024

Social Innovator Drafter

- **Designed and developed** a responsive web platform using **HTML, CSS, JavaScript, and Shopify API** to assist individuals experiencing household food insecurity.
- **Collaborated with the Simcoe Muskoka District Health Unit (SMDHU)** to align features with community needs and ensure content accuracy.
- **Presented** the site to **SMDHU**, gaining **valuable feedback** that guided final feature implementation.
- **Performed manual testing** for performance, responsiveness, and accessibility across devices.
- Used **Google Analytics** and **Lighthouse** to assess SEO, UX, and site load time, with iterations based on results.
- Contributed in **agile sprints**, team retrospectives, and a final stakeholder demo.
- Focused on **usability, accessibility, and mobile responsiveness** to ensure inclusivity for diverse user groups.

## EDUCATION

### Georgian College

September 2023 - April 2025

Computer Programming - 4.0

## PROJECTS

### Student Database Management System

- **Developed** a full-stack **web application** for **student course registration** and **school data management**, designed to streamline enrollment and administrative tasks.
- **Deployed** using **Azure SQL Database** and **hosted** on **Azure App Services**.
- **Implemented role-based authentication** and **authorization** to separate access for students, faculty, and admins.
- **Tested** form validations and **CRUD operations** across user roles.
- Integrated **GitHub Actions** for CI/CD and participated in agile team sprints.
- **Designed and tested** dynamic data forms using **Bootstrap**, ensuring clean layout and responsive UI.

- Participated in a web styling challenge where the **HTML structure was fixed and unchangeable** – only **CSS** could be used to implement the design.
- Created a **fully responsive, accessible theme** using **CSS Grid, Flexbox, and media queries**.
- Added **animations and visual transitions** to enhance user engagement and navigation flow.
- Focused on **semantic styling, WCAG accessibility standards**, and **cross-browser compatibility**.
- Closely followed **Figma mockups** to ensure visual alignment and UI accuracy.

## School Database Management System

- Developed a **full-stack web application** for student course registration and school data management, designed to streamline **enrollment** and **administrative tasks**.
- Deployed on **Render** with **MongoDB** as the primary database for **secure** and **scalable** data storage.
- Implemented **role-based authentication and authorization** to separate access for **students, faculty, and admins**.
- Designed **responsive UI** with **Bootstrap** and validated **dynamic data forms** for a smooth user experience.
- Built and tested **CRUD operations** across different user roles using **Express routes** and **Mongoose schemas**.
- Configured **GitHub Actions** for **continuous integration and deployment (CI/CD)**.
- Participated in **agile sprints**, handling **task breakdowns**, **pull requests**, and **team code reviews**.

## Household Food Insecurity Web Platform

- Designed and developed a fully responsive website to support individuals facing **household food insecurity**, with features aligned to community health needs.
- Integrated **Shopify API** for resource listings and community support access.
- Collaborated with the **Simcoe Muskoka District Health Unit (SMDHU)** to ensure accuracy, cultural relevance, and feature alignment with public health goals.
- Conducted **manual testing** across multiple devices and browsers for **performance-, accessibility, and responsiveness**.
- Used **Google Analytics** and **Lighthouse** to evaluate and improve **UX, SEO, and load times**, iterating based on performance metrics.
- Participated in **agile sprints**, retrospectives, and presented a working demo to key stakeholders.
- Prioritized **usability, accessibility**, and **mobile-first design** to ensure inclusive access for all user groups.

## SKILLS

<b>Programming &amp; Scripting:</b> JavaScript, Python (basic), Bash, HTML, CSS, Java, C#	<b>DevOps &amp; Cloud:</b> Render, Azure App Services, GitHub Actions
<b>Frameworks &amp; Libraries:</b> Node.js, Express.js, Bootstrap, Mongoose, React.js	<b>Tools &amp; Platforms:</b> Jira, VS Code, Postman, Google Analytics, Figma, Shopify API
<b>Testing &amp; QA:</b> Manual Testing (Functional, Regression, System), Test Case Design, Form Validation, Google Lighthouse, Selenium (learning)	<b>Operating Systems:</b> Linux (CLI, scripting), Windows
<b>Version Control &amp; CI/CD:</b> Git, GitHub, Bitbucket, GitHub Actions, Azure Pipelines, Jenkins (basic)	<b>Soft Skills &amp; Collaboration:</b> Agile methodologies, Team sprints, Stakeholder demos, UX & Accessibility focus, Presentation skills
<b>Databases:</b> MongoDB, Azure SQL Database	

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## CERTIFICATE

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**Microsoft Certified: Azure Fundamentals**

**Azure DevOps for Beginners**

**Networking Basics**

**Learning Jira (Cloud Edition)**

**CTN Changemaker Micro Certificate**

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## AWARD

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### **Sustainability Award – Essential Future Building Hackathon**

- Collaborated in a team of two to design and build a **Net Zero dam model** using **100% repurposed materials**, aiming to minimize environmental impact.
- Conducted **intensive brainstorming sessions** to conceptualize a dam that repurposes every form of waste – ensuring that no byproduct goes unused and contributes to the dam's functionality.
- Demonstrated **strong leadership** and **problem-solving skills** under strict time constraints, taking initiative in both technical design and team coordination.
- Delivered a **compelling technical presentation** to a panel of industry judges, clearly articulating the engineering rationale and sustainability goals.
- Awarded **first prize** for innovation, execution, and environmental impact.