

# Manjosh Badla

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## Skills

**Technical Skills:** C/C++, Python, HTML, CSS, Java, SQL, JavaScript, R programming language, Java Script, C#

**Technologies & Tools:** git/GitHub, Jupyter, MATLAB, Figma, Balsamiq, VS Code, Clion, QT Creator Design Studio, RStudio, Dockers, Power BI

**Concepts:** Object-orientated programming, Relational Database, DSA, Binary Tree, Process, Socket Programming, Networks, Multimedia systems, UI/UX design, Threads, Processes, DFS, BFS, Numpy, Pandas, Spark, Big Data

**Operating Systems:** Linux, Windows, MacOS

**Soft Skills:** Verbal and Written Communication, Organization, Customer Service, Efficiency, Professionalism, Time Management

## Featured Projects

### Sewjo (Team Project)

- Developed an inventory management system for FABCYCLE using Java, HTML, CSS, and JavaScript, enabled user functionalities for project tracking and community interaction.
- Integrated Firebase API for robust data handling, allowing users to upload and manage images and project details.
- Designed responsive user profiles for personalization and community sharing, enhancing user engagement on the platform.

### Grocery Price Analysis (Personal Project)

- Built a Python pipeline to clean and analyze a year of Canadian grocery price data across eight vendors using pandas, NumPy, and regular expressions.
- Merged and standardized raw CSVs by parsing inconsistent units (grams, litres, items) and converting prices to common measures (per-100g / per-L / per-item).
- Designed a “basket” index of essential goods (milk, eggs, bread, butter) to compare vendor pricing trends; found Walmart as the most affordable and Galleria as the priciest.
- Visualized price trends with LOESS smoothing, revealing seasonal fluctuations (e.g., egg price spike in late 2024).
- Managed real-world scraped data challenges including missing days, noisy units, and shifting product IDs.

### S-Talk (Chat-bot) Application (Team Project)

- Built using C language, implemented UDP networking using socket programming.
- Used threads and mutex to control different processes, so that one person can talk/chat with other person using different computer with the help of S-Talk application.

### Deny and Conquer Game (Team Project)

- Led the development of this multiplayer game using Java and JavaFX for graphic interfaces and overall game.
- Implemented client-server architecture using socket programming to facilitate real-time communication between players.
- The server and the clients communicated over TCP socket connection.

### Personal Portfolio Website (Personal Project)

- Designed and developed a responsive personal portfolio website to showcase projects, skills, and experience using **HTML, CSS, and JavaScript**.
- Implemented interactive navigation, smooth animations, and a clean layout to enhance user experience.
- Optimized website performance and accessibility across desktop and mobile devices.
- Deployed the site using **GitHub Pages**

## Work Experience

### Wireless Consultant

Mar. 2024 – Present

Staples

Surrey, BC

- Activated phone lines for personal and small business clients with Bell Mobility, ensuring smooth and efficient service delivery.
- Provided personalized wireless solutions, tailoring plans and devices to meet customer needs.
- Delivered top-tier customer service, resolving technical issues and answering product queries to enhance customer satisfaction.

### Delivery Driver

April. 2024 – June. 2024

Save On Foods

Surrey, BC

- Delivered mail and parcels safely and efficiently along assigned routes, ensuring timely service and customer satisfaction.
- Managed sorting, organizing, and preparing delivery routes using digital tools and address mapping systems.
- Maintained accuracy and confidentiality when handling sensitive or registered mail.

Demonstrated strong time management, reliability, and customer service in a fast-paced environment

### Letter Carrier

July. 2023 – Feb. 2024

Canada Post

Surrey, BC

- Delivered mail and parcels safely and efficiently along assigned routes, ensuring timely service and customer satisfaction.
- Managed sorting, organizing, and preparing delivery routes using digital tools and address mapping systems.
- Maintained accuracy and confidentiality when handling sensitive or registered mail.
- Demonstrated strong time management, reliability, and customer service in a fast-paced environment.

### Geek Squad Agent

Sept. 2021 – Mar. 2024

Best Buy

Surrey, BC

- Delivered technical support for hardware, software, and networking issues, resolving 95% of customer concerns on first contact.
- Diagnosed and repaired PCs, mobile devices, and smart home tech, ensuring optimal performance and customer satisfaction.
- Maintained detailed service records and collaborated with sales teams to recommend tailored tech solutions, boosting service-to-sales conversions.

## Volunteering Experience

### Website Developer

May. 2022 – Sept. 2022

Indigenous Tutoring Mentorship Program

Burnaby, BC

- Designed and maintained the organization's website using **Wix**, improving navigation and accessibility for students, mentors, and program coordinators.
- Collaborated with program leaders to update content, create event pages, and ensure cultural representation and inclusivity in the site design.
- Enhanced the site's visibility and engagement through layout optimization and mobile-friendly design.

## Education

### Bachelor's of Applied Science - Computing Science

May 2021 - Present

Simon Fraser University

Burnaby, BC