

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, GC Docs, Foxit PDF, Adobe Acrobat

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

Co-op Student, Data & Systems Operations (Clerical Support) Jan. 2026 – Present Indigenous Services Canada – Government of Canada Vancouver, BC

- Utilized enterprise-level government databases (GC Docs, Jordan's Principle Case Management System, Indian Registration System) to search, filter, validate, and link records using structured queries and keyword-based retrieval.
- Performed high-volume, high-accuracy data entry and data validation, ensuring consistency, integrity, and compliance with regional data governance standards.
- Extracted, consolidated, and analyzed quantitative and qualitative datasets to support operational reporting, budget forecasts, and administrative decision-making.
- Identified duplicate, inconsistent, or incomplete records and submitted recommendations to the regional super-user team for record merging and system cleanup, improving data quality and system reliability.
- Supported the development and improvement of administrative systems, workflows, and procedures, contributing to process optimization and efficiency improvements.
- Prepared structured reports, documentation, and presentation materials using digital tools (Adobe Acrobat, Foxit, Microsoft Outlook) for internal and external stakeholders.
- Worked with secure federal information systems, adhering to privacy, access control, and data handling policies.
- Collaborated in a fast-paced, high-priority environment, managing competing deadlines and supporting special projects during peak operational periods.

Wireless Consultant Mar. 2024 – Present Staples Surrey, BC

- Activated and provisioned wireless services for individual and small business clients using Bell Mobility systems, ensuring accurate account setup and service configuration.
- Analyzed customer requirements to recommend optimized wireless plans, devices, and connectivity solutions aligned with technical and usage needs.
- Provided technical support and troubleshooting for mobile devices, network connectivity, and service issues, improving reliability and customer satisfaction.

Geek Squad Agent Sept. 2021 – Mar. 2024 Best Buy Surrey, BC

- Delivered end-user technical support for hardware, software, operating systems, and network connectivity issues, resolving ~95% of cases on first contact.
- Diagnosed, repaired, and optimized PCs, mobile devices, and smart home systems, improving system performance and reliability.
- Maintained detailed service records and collaborated with sales teams to recommend tailored tech solutions, boosting service-to-sales conversions.
- Performed root-cause analysis to identify recurring technical issues and applied structured troubleshooting methodologies.

Volunteering Experience

Website Developer May. 2022 – Sept. 2022 Indigenous Tutoring Mentorship Program Burnaby, BC

- Designed, developed, and maintained a public-facing website using Wix, focusing on responsive design, usability, and accessibility.
- Collaborated with stakeholders to gather requirements, update content, and create event pages, improving information delivery and user engagement.
- Optimized site layout and mobile compatibility to enhance navigation, performance, and overall user experience (UX).

Education

Bachelor of Applied Science - Computing Science May 2021 - Present Simon Fraser University Burnaby, BC