

# Gurdit Singh

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## EDUCATION

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

University of Manitoba - Bachelor of Science in Computer Science  
Dean's Honours List: 2019 and 2020

Sep. 2019 – Dec. 2023

Undergraduate Student Academic Scholarship: 2020, 2021 and 2022

## CERTIFICATIONS

Amazon Web Services Cloud Practitioner – *AWS* [🔗](#)  
Full Stack Web Development BootCamp – *Udemy* [🔗](#)

## PERSONAL PROJECTS: (LINK OF THESE PROJECTS AND MANY MORE ON GITHUB)

**SnackStats Chrome Extension** | *JavaScript, Next.js, TypeScript, Tailwind CSS, Chart.js, Radix UI* [🔗](#) **Spring 2024**

- Developed a **Chrome extension** to extract order history data from UberEats, SkipTheDishes, and DoorDash, then visualize comprehensive spending statistics on a custom **Next.js** 14 website using **Chart.js** and **Radix UI**.
- Created interactive dashboards showcasing total spending, favorite restaurants, annual/monthly breakdowns, and unique insights through pie charts, bar graphs, and line graphs, providing users with meaningful food ordering patterns and trends.

**ScreenScan Chrome Extension** | *JavaScript, HTML, CSS, Chrome APIs* [🔗](#) **Winter 2024**

- Created and deployed a **Chrome extension** that enables users to capture any screen area and search it on Google Lens, facilitating **real users** to easily analyze static and dynamic content with a simplified search process.
- Designed to adapt seamlessly to different zoom levels and screen resolutions, prioritizing user privacy and functionality without storing personal data.

**Full Stack Chat Application** | *Web-Sockets, React, JS, Node, Express* [🔗](#) **Winter 2024**

- Developed a full-stack chat application using React.js and Node.js with Express, implementing WebSockets for real-time, bidirectional messaging and OAuth for user authentication.
- Enhanced user experience with responsive design via Bootstrap and utilized PostgreSQL for persistent storage and retrieval of chat messages and user information.

**Job Queuing System** | *Python, Sockets (TCP, UDP)* **Winter 2023**

- Developed a Python-based message queuing system featuring a client, work queue, and worker components using TCP sockets and select for efficient communication, along with implementing specialized message types for job handling and status updates.
- Designed the worker component to operate as a daemon, outputting text to a UDP socket every 0.25 seconds, and integrated Syslog for robust logging capabilities.

## WORK EXPERIENCE

**Wawanesa Insurance** – *Administrative Assistant* Feb 2023 - Present

- Managed daily policy records and coordinated mail for 25 employees, maintaining a 98% delivery rate and ensuring accuracy in policy documentation.
- Supported over 400 policyholders monthly with a 95% satisfaction rate, processing payments and inquiries while effectively using JIRA to prioritize and manage tasks.

**Manitoba Government** – *Data Analyst Internship* Apr 2023- Sept 2023

- Enhanced Winnipeg's school dataset accuracy by 95% through data cleansing and schema conversion, ensuring compliance with educational standards.
- Improved data processing efficiency by 30% and increased analysis proficiency by 40%, utilizing Python, Visual Studio Code, and MS SQL Server for robust dataset integration and analysis.

**University of Manitoba**– *Undergraduate Research Assistant* [🔗](#) Jan 2022 - Sept 2022

- Developed a new theorem in computational mathematics to approximate orthogonal polynomial values, utilizing Python and Cocalc for data analysis.
- Enhanced research reproducibility by documenting findings and algorithms, and delivered a presentation at an academic conference to highlight theorem applications.

## VOLUNTEER WORK

**University of Manitoba** – **International Student Orientation Ambassador** 2020, 2021