

GURNEET KAUR

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Professional Summary

- Honours Applied Computer Science student (Minor: Mathematics) with hands-on experience translating requirements into working technical solutions through research deliverables, course support, and projects. Skilled in Python, Java, SQL, JavaScript, and Linux-based environments, with strong debugging, troubleshooting, and structured problem-solving habits aligned with SDLC-style development.
- Experienced working with real-time sensor systems using Raspberry Pi 5 and Python by building data-collection and processing scripts, validating outputs through controlled tests, and documenting technical procedures for reproducibility, strengthening analytical thinking and attention to accuracy.
- Over a year of experience supporting 200+ students as a Teaching Assistant in Data Structures & Algorithms debugging Java programs, explaining algorithm behavior, and improving code quality through modular design, complexity reasoning, and test-case development.
- Developed Built analytics and application projects (ETL + SLA metrics + dashboards) using SQL/PostgreSQL, Docker-based setup, and JavaScript UI components—experience relevant to application development, integration testing mindset, and improving efficiency via repeatable workflows.
- Recognized for academic excellence (Dean's Honour List; Academic Proficiency Scholarship) with strong communication, stakeholder-style presentation experience in academic settings, and the ability to manage multiple competing priorities across research, teaching, and service roles.

Relevant Work Experience

Undergraduate Research Assistant

The University of Winnipeg

September 2025- Present

Winnipeg, Manitoba

- Developed Python scripts to collect, clean, and analyze real-time sensor data using Raspberry Pi 5, improving data signal reliability for experimental and analytical use.
- Broke down complex technical tasks into smaller testable components, designed controlled tests, and evaluated multiple implementations approaches to strengthen accuracy and reproducibility.
- Used MS Teams for team coordination; prepared Excel/PowerPoint summaries and presented research progress to university's department stakeholders.
- Contributed to a faculty-supervised research paper by supporting data handling, writing analytical sections, and applying critical-thinking skills—while adhering to confidentiality restrictions and not disclosing project-specific details.

Teaching Assistant (Data Structures & Algorithms)

The University of Winnipeg

September 2024- Present

Winnipeg, Manitoba

- Assist 200+ students by guiding them through debugging Java programs, identifying logic errors, and understanding algorithmic behavior through step-by-step reasoning.
- Teach modular program design, naming conventions, algorithm complexity analysis, and writing strong test cases to prevent common logic failures.
- Support grading, provide written feedback, invigilate exams, and respond to technical questions throughout the term, ensuring student comprehension and academic integrity.

Additional Work Experience

Customer Service Agent

Perimeter Aviation

October 2024 – Present

Winnipeg, Manitoba

- Provide customer support in a high-volume environment, managing inquiries, travel assistance, and service issues with professionalism and clarity.
- Demonstrate strong communication, patience, conflict-resolution, and problem-solving skills while assisting diverse passenger groups.

- Maintain accuracy in documentation, follow safety procedures, and collaborate with team members to ensure smooth day-to-day operations.

Projects

Flight-Status Dashboard (Northern Manitoba Community Tracker)

- Built an interactive JavaScript dashboard displaying live flight information for northern communities, focusing on usability under low-bandwidth conditions.
- Designed clean UI components emphasizing clarity, accessibility, and structured layout.
- Created reusable code modules to improve maintainability, scalability, and readability of the frontend system.

Northwind Pricing & Fulfillment SLA (ETL & Analytics System)

- Designed a compact analytics project implementing SLA metrics (lead time, on-time rate, late-day buckets, No-SLA flags) using a Northwind-style dataset.
- Built star-schema tables and SLA analytic views, enabling clean exports for Power BI, Excel, and CSV-based workflows.
- Wrote ETL SQL, schema creation scripts, and validation queries for automatic Docker-based Postgres setup.

Education

The University of Winnipeg

Bachelor Honours in Applied Computer Science

Sep 2022 – Present

Minor: Mathematics

- Recognized for academic excellence through Deans Honour's list, maintaining a stellar 4.0 CGPA, demonstrating dedication to mastering applied computer science concepts.
- Awarded the Academic Proficiency Scholarship by The University of Winnipeg.

Relevant Courses: Data Structures & Algorithms, Computer Security & Privacy, Operating Systems, Artificial Intelligence, Data Warehousing

Volunteer

Executive Secretary (ACM Student Chapter)

September 2025– Present

The University of Winnipeg

Winnipeg, Manitoba

Community Volunteer (Langar Service)

January 2023 – Present

Gurudwara Sahib Winnipeg, Manitoba

Winnipeg, Manitoba

Certificates

Google Cybersecurity Certificate

July 2025

AWS Cloud Technical Essentials

November 2025