

Mantaj Singh

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Professional Summary

Computer Science student with hands-on experience in software development, data analytics, and structured evaluation. Proficient in Python, SQL, and web development; experienced building ETL pipelines, dashboards, and full-stack applications. Strong communication, documentation, and problem-solving in fast-paced settings. Seeking co-op or internship for Summer 2026 and Fall 2026.

Education

Acadia University

Bachelor of Computer Science

Wolfville, NS

Expected Dec. 2026

- **Relevant coursework:** Python, Discrete Mathematics, Calculus, Statistics, Computer Architecture, Software Engineering, Artificial Intelligence, Operating Systems, Data Communication, Financial Accounting.
- **Accolades:** Student Excellence Scholarship; Dean's List 2024/25.

Technical Skills

- **Programming:** Python, Java, JavaScript, TypeScript, C, R
- **Data & analytics:** SQL, PostgreSQL, Power BI, Tableau, Pandas, scikit-learn
- **Web:** React, Next.js, Node.js, Express.js, HTML/CSS, Tailwind CSS
- **Tools:** Git/GitHub, Docker, Vercel, Excel, Jupyter, VS Code

Experience

Research Assistant

Prof. Ryan Stack, Acadia University

Oct. 2024 – Present

Wolfville, NS

- Automated research workflows in Python and R to improve efficiency and consistency of analysis.
- Analyzed datasets from 160+ YouTube channels; summarized trends and findings for research.
- Validated datasets and identified inconsistencies before analysis.

Online Data Analyst (Part-Time)

TELUS International

Sep. 2025 – Jan. 2026

Remote

- Reviewed 150+ AI-generated entries per shift for accuracy, relevance, and guideline compliance.
- Documented issues clearly; applied quality standards and attention to detail.
- Worked independently under time expectations while maintaining high evaluation quality.

Courtesy Desk Associate

Walmart Canada

May 2025 – Aug. 2025

New Minas, NS

- Resolved customer issues by triaging concerns, explaining policies, and coordinating with departments.
- Handled transactions accurately and stayed professional during high-volume periods.
- Strengthened problem-solving and communication in daily customer-facing support.

Projects

Data Dash Python, Streamlit, Pandas, Plotly (In Progress)	Source
<ul style="list-style-type: none">Analytics dashboard for CSV/Excel with file upload, auto-column detection, and interactive charts.Sales analytics, customer insights, and trend visualizations using Streamlit and Plotly.	
Public Accountability Project Python, Sentiment Analysis	
<ul style="list-style-type: none">Built pipelines to fetch channel/video metadata and comments for public-interest research.Performed sentiment analysis and text mining to compare themes and language by region.	
Key to the Kingdom (Java RPG) Java, Swing, OOP, Multi-threading	Source
<ul style="list-style-type: none">RPG with four areas (Castle, Field, Cave, Village), NPC dialogue, inventory, and quest system.Multi-threaded game loop (50 FPS), double-buffered rendering, collision and event-driven triggers.Modular design: Map, Character, Event, Audio, UI; chunk-based loading and region-specific audio.	
Gradient Boosting Regression Python, Pandas, scikit-learn, XGBoost, Matplotlib	Source
<ul style="list-style-type: none">Trained and evaluated XGBoost regression; compared to baselines.Hyperparameter tuning and feature importance analysis for explainable results.	
StudyLink React, Node.js, Express, Prisma, PostgreSQL, Docker, Vercel	Source
<ul style="list-style-type: none">Full-stack app with auth and CRUD; REST API and UI design.Deployed with Docker and Vercel; emphasis on structure and maintainability.	
Event Management System React, Node.js, Express, MongoDB, React Router	Source
<ul style="list-style-type: none">Responsive event app; front-end components integrated with back-end APIs.Improved flow with React Router and structured components.	

Certifications

- Data Modelling & Analysis** — McMaster University Continuing Education (Summer 2025, A+)