# Noori Arora

704 Mcgill Road,Kamloops, BC ,V2C 6N7 (Open to Relocate)

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## Education

**Bachelor of Computing Science (Co-op) — GPA: 3.72/4.33**                09/2022 – 12/2026

*Thompson Rivers University*                                                                  Kamloops, BC

- Served as President, Women In Stem and secured over $5,000 funding for community events. Worked for Student Union Board of Directors as Racialized Person Representative.

## Work Experience

**Research Assistant – Computer Vision and Deep Learning**                10/2025 – Present

*Thompson Rivers University*                                                                  Kamloops, BC

- Built production-grade data pipelines in Python to process and analyze 8,000+ human motion samples, performing exploratory data analysis to identify patterns, anomalies, and class distributions for deep learning model training
- Developed automated preprocessing workflows for 3D skeleton sequences (25-joint Kinect format) with alignment to RGB video frames, enabling efficient data ingestion for computer vision research
- Deployed experiments on cloud computing infrastructure (Compute Canada) using Bash scripts and Linux environments, monitoring model performance and iterating on results to optimize accuracy
- Collaborated with cross-functional research teams using Git version control, documenting findings and presenting data-driven insights to stakeholders

**Teaching Assistant – Java Programming 2**                                        09/2025 – Present

*Thompson Rivers University*                                                                  Kamloops, BC

- Collaborated with course instructor to assess student work, demonstrating strong communication skills and ability to work effectively in team environments.
- Provided detailed technical documentation and conducted code reviews, reinforcing best practices in software development, data structures, and algorithm implementation.
- Enhanced problem-solving capabilities by debugging complex logic, syntax, and design issues across diverse programming challenges.

**Researcher – Applied ML for Predictive Health Analytics**                05/2025 – 08/2025

*Thompson Rivers University*                                                                  Kamloops, BC

- Designed and implemented end-to-end machine learning workflows using Python and SQL to analyze complex, multi-source healthcare datasets, conducting research on emerging ML techniques to enhance predictive model performance
- Designed ETL-style workflows using Python and SQL to clean, validate, and troubleshoot multi-source datasets.
- Trained, evaluated, and compared multiple ML models using standard performance metrics, documenting experiments and preparing technical reports to communicate findings to both technical and non-technical stakeholders
- Collaborated with interdisciplinary teams to understand business requirements and translate them into analytical solutions.

## Projects

**Task Management Web Platform (Data-Driven System)** — PHP, SQL, JavaScript, AJAX

- Designed and implemented f**ull-stack MVC web application** with strong separation of concerns, building production-grade data validation logic and complex SQL aggregation queries to ensure data quality
- DeImplemented dynamic user interactions with **jQuery and AJAX** for asynchronous data exchange and real-time form validation
- Applied data structures and algorithms knowledge to optimize database queries and improve application performance

**UX Roast AI Agent** — Python, LLMs, FastAPI, Computer Vision, Next.js

- Built autonomous AI agent using LLM-based reasoning and planning frameworks to simulate real user behavior, analyze UX friction points on live websites, and generate actionable insights for product teams
- Integrated advanced AI capabilities with browser automation to detect usability issues beyond rule-based testing, supporting deployment of AI solutions in production-like environments
- Applied machine learning and data-driven analysis to interpret screenshots, page structure, and interaction patterns to generate actionable UX insights
- Collaborated with cross-functional development team using Git for version control and GitHub for issue tracking during 24-hour hackathon, demonstrating ability to deliver under tight deadlines

**Vision-Controlled IoT Automation System** — Python, Computer Vision, Machine Learning, Firebase

- Designed a machine intelligence pipeline that interprets 3D hand landmark data and maps it to multi-degree-of-freedom motion control with teammates
- Processed and analyzed high-frequency telemetry data to measure latency, consistency, and system performance
- Designed cloud-backed data logging to support monitoring, analytics, and future anomaly detection use cases
- Laid the groundwork for predictive maintenance and anomaly detection by structuring time-series telemetry data from IoT devices

**Power BI Business Insights Dashboard** — Power BI, Excel, Power Query

- Built interactive Power BI dashboards using cleaned and modeled sales datasets, applying data visualization best practices to highlight trends and performance metrics for business stakeholders
- Performed data cleaning and transformation using Microsoft Excel and Power Query, ensuring data quality for accurate reporting
- Developed KPIs and analytical reports to support data-driven decision-making, demonstrating ability to translate business needs into technical solutions

## Technical Skills

**Languages:** Python, SQL, JavaScript, PHP, Git, Bash, Linux
**Cloud:** AWS (basic), Databricks, FastAPI, AJAX, RESTful APIs, Version Control (Git/GitHub)
**Data and Analytics:** Power BI, Excel, Power Query, Pandas, Data Visualization, Statistical Analysis
**Development:** Full-Stack Web Development (MVC), Data Pipelines, Production Deployment
**AI/ML Frameworks:** LLMs, Computer Vision, Deep Learning, Scikit-learn, TensorFlow
**Certifications:** Oracle APEX Cloud Developer Professional (1Z0-770), Data Analysis using Power BI (2024), Get Started with Data Engineering on Databricks

## Leadership Experience

**President – Women In STEM Club** <span style="float:right">09/2025 – Present</span>
*Thompson Rivers University* <span style="float:right">Kamloops, BC</span>

- Lead 8-member executive team to organize 5+ campus events engaging 50+ students, demonstrating ability to work independently and collaboratively in fast-paced environments
- Developed communication and presentation strategies to promote STEM education and inclusion, preparing reports to university stakeholders on program impact and outcomes
- Mediate conflicts between team members with different priorities and working styles, actively listening to concerns and facilitating solutions that maintain team cohesion and project momentum