**Luvneet Singh Bamrah**

**Faculty of Computer Science Co-op Program**

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| **Education:** | |  |
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| September 2020 – Present |  | Bachelor of Science in Software Engineering  Fredericton, NB |
| April 2020 |  | Leaders Private School Sharjah,  UAE |
| June 2019 – March 2020 |  | CS50 – Introduction to game development Harvard University |
| May 2020 |  | PH125 – Data Science: Machine learning  Harvard University |
| June 2020  **Work Experience:** |  | CS50 – Mobile App Development with React Native Harvard University |
| April 2018 – April 2020 | **Leaders Private School**, Sharjah, UAE | |

Student council

Organizing events throughout the year while keeping studylife balance

Ensuring safety of students throughout campus

September 2021 – April 2022 **University of New Brunswick**

Residence Assistant

Providing frontline support to residents, with a focus for a safe and positive environment

Maintaining discipline on the premises

Submitting weekly reports to the management

Emergency responses

# School Experience

September-December 2023

**SWE4103 – Software Quality and project management** Topics include:

Emphasize testing, verification and validation, techniques, software project tracking, planning and scheduling, organizing and managing software development teams

Introduces formal specification languages, statistical software reliability engineering, factors influencing productivity and success, risk analysis and planning for change

# Personal Projects;

* Made a program using Java and MySQL to imitate an online grocery.
* Made a program in VHDL that takes a base 11 button input, converts it to base 12 and displays it to the screen. Also implemented up/down counting and reset buttons.
* Made a game educating people on severe anxiety and other mental disorders.
* Made a GUI program that imitates a gym login system. Includes details of trainers, other staff, and customers.
* Made several remakes of popular games as coding project in a CS50 – Introduction to game development class (Harvard University)
* Currently working on a 2d platformer game, with a unique story line and custom music.
* Made a Sensor Management System with functioning database, database management, front end, back end and several development pipelines.
* Made a graphing system in JavaFX which actively takes in coordinates and can plot them. This system can also remove and edit data points.

**Skills:**

**Programming Skills**: Java, SQL, Python, C#,C, HTML5, JavaScript, VHDL, MatLab, Racket, Git, Assembly

**Operating Systems**: Microsoft Windows, Linux, Android, iOS

**Soft Skills:** Communication, Organisation, Problem Solving, Teamwork, Multitasking, Attention to detail

**Job Overview**

* NeenOpal Canada Inc. is looking for an experienced Data Engineer to design, develop, and maintain scalable data pipelines and ETL processes. The successful candidate will collaborate closely with our global Business Analytics teams to support the implementation of data warehouse solutions tailored to client needs. This role offers the opportunity to work in a hybrid environment, with 1-2 days per week in our Fredericton office.
* **Key Responsibilities**
* **Data Pipeline Development:** Design, implement, and manage robust data pipelines that ensure efficient data flow from various sources into data warehouses. This includes automating ETL processes using Python and advanced data engineering tools.
* **Data Integration:** Utilize industry-standard tools and technologies to integrate and transform data. This includes working with platforms such as:
* **AWS Services:** AWS Glue, AWS Data Pipeline, Amazon Redshift, and Amazon S3.
* **Azure Services:** Azure Data Factory, Azure Synapse Analytics, and Azure Blob Storage.
* **Data Warehousing:** Implement and optimize data warehousing solutions using Snowflake and Amazon Redshift.
* **Database Management:** Develop, optimize, and manage relational databases, including SQL Server, MySQL, and PostgreSQL, ensuring data integrity and performance.
* **Performance Optimization:** Continuously monitor and improve the performance of data processing workflows. Apply best practices for query optimization and data processing efficiency.
* **Collaboration:** Work closely with cross-functional teams in the US, India, and Canada to deliver high-quality data solutions. Ensure effective communication and collaboration across different time zones.
* **Data Governance:** Document data pipelines, ETL processes, and data mappings in line with established data governance standards. Ensure compliance with data quality and security protocols.
* **Troubleshooting & Support:** Diagnose and resolve data-related issues promptly, providing ongoing support to ensure the reliability of data solutions.
* **Required Skills and Experience**
* **ETL & Data Engineering Tools:** Minimum 2+ years of experience in designing and developing ETL processes using tools such as AWS Glue, Azure Data Factory, or similar ETL platforms.
* **Programming:** Proficient in Python for data engineering and ETL automation. Familiarity with SQL for database management and query optimization.
* **Cloud Platforms:** Strong experience with cloud-based data services on AWS or Azure. Familiarity with GCP is a plus.
* **Data Warehousing:** Expertise in developing and managing data warehouse solutions using platforms like Snowflake, Amazon Redshift, or Azure Synapse Analytics.
* **APIs & Data Integration:** Experience in integrating data from various sources using RESTful APIs and other data integration techniques.
* **Preferred Qualifications:**
* **Advanced Cloud Expertise:** Experience with advanced features and services within AWS, Azure, or Snowflake, and a commitment to staying updated with the latest data engineering technologies.
* **Business Acumen:** Ability to translate complex business requirements into scalable and efficient data engineering solutions, aligning technical implementations with business objectives.
* **What We Offer**
* **Dynamic Work Environment:** A hybrid work model that combines the flexibility of remote work with the collaborative benefits of in-office presence.
* **Professional Growth:** Opportunities for continuous learning and development within a fast-growing, global analytics company.
* **Innovative Projects:** Engage in cutting-edge data engineering projects with a diverse team of experts across the globe.
* **Note:** You are expected to have a valid work authorization in Canada to apply for this rol