

# Imad Ahmad – Data Developer

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## TECHNICAL SKILLS

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**Programming Languages:** Python, R, SQL, JavaScript, HTML, CSS

**Database/Data Warehouse:** MySQL, PostgreSQL, MongoDB, Amazon Redshift, Snowflake

**Big Data/Cloud:** Kafka, Spark, Hadoop, AWS Certified

**Analytics/BI:** Tableau, PowerBI, Python statistical analysis and visualization libraries

## EDUCATION

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**Master of Data Science and Analytics**, *University of Calgary*, August 2023

**Bachelor of Science in Integrated Science**, *University of British Columbia*, May 2020

## PROFESSIONAL CERTIFICATIONS

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**[AWS Certified Cloud Practitioner](#)**, *Amazon Web Services*, August 2023

**DBT Analytics Engineering Certification (In Progress)**, *DBT Labs*, Exam August 26, 2023

## WORK EXPERIENCE

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**Junior Data Engineer (Medical Laboratory Assistant)**, *LifeLabs*, August 2021 – April 2022

- Executed SQL queries on COVID-19 test specimen data, enabling comprehensive and efficient data extraction for over 1000 COVID-19 test specimens per day.
- Managed ETL operations on the data pipeline, ensuring seamless integration while maintaining data integrity, thereby reducing data redundancy and boosting database performance by 20%.
- Instituted daily data reviews, effectively maintaining data accuracy and cleanliness, thereby ensuring reliability of information for analytical and operational use, reducing data inaccuracies by 20%.

**Database Support Intern**, *UBC Family Practice Clinic*, October 2019 – May 2020

- Organized patient information with MySQL database, enhancing scheduling efficiency and leading to a 50% decrease in patient wait times and improving the overall patient experience.
- Translated patient data into compelling visual presentations for staff meetings, promoting data-driven discussions and decisions, resulting in a 45% increase in data-based decision-making within the first quarter of implementation.
- Developed a customized mass email system for effective communication, facilitating prompt notifications regarding COVID-19 and strengthening patient-provider communication, leading to a 60% increase in communication time.

## PERSONAL PROJECTS

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### [Recycling Image Classifying Robot](#)

- Developed **TensorFlow-based Convolutional Neural Network** to accurately classify images of waste.
- Trained model on images from Kaggle and **web-scraped** images using the **Selenium** library to attain **85% accuracy**.
- Enabled real-time waste classification by transferring the built model onto a Raspberry Pi powered robot ([video](#)).

### [CSVanalysis.com](#)

- Developed and launched a user-friendly website that provides users with a preliminary analysis of their data, promoting ease of access to powerful analytics with over **30 monthly users**.
- Leveraged **Pandas** and **Flask** libraries to enable swift processing and analysis of uploaded CSV, enhancing user experience and processing speed by 50%.
- Devised a data storage solution using **MariaDB**, providing efficient storage of uploaded files in a **SQL Database** and streamlining data management to allow instant access to files.

### [Gender Disparity Amongst Physiology Departments](#)

- **Web-scraped** data from Scopus to investigate gender disparity in physiology departments across North America, increasing data collection speed by 70%.
- Conducted robust data analyses using **STATA**, including **multiple linear regression** and **normality testing**, underlining proficiency in statistical methods.
- Achieved **First Author** recognition in a published research paper with over 600 readers, showcasing successful application of my analytical skills to a real-world problem.