

Manan Amin

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Education

University of Waterloo

Honours Bachelor of Mathematics - Statistics & Machine Learning (BMATH)

Waterloo, ON

Expected May 2028

Lazaridis School of Business & Economics

Honours Bachelor of Business Administration - Entrepreneurship (BBA) Double Degree Program

Waterloo, ON

Expected May 2028

Professional Experience

GFL Environmental

Data Engineering Intern — Backend + ETL & ELT Development

Toronto, ON

May 2025 – August 2025

- Designed and deployed scalable ETL pipelines on a custom-built **AWS lakehouse architecture** (S3, Glue, Athena) using **Terraform** and Glue Crawlers/Jobs, enabling automated ingestion, PySpark transformations, and reliable processing of **10M+ records/day**.
- Delivered curated datasets in **AWS QuickSight** (leveraging **SPICE** for faster in-memory analytics) through cross-functional collaboration with engineers, analysts, and product managers, accelerating data availability by **30%** and reducing manual reporting by **40%**.
- Migrated databases and modernized **AWS Glue Jobs** (including upgrades from Glue 4.0 to 5.0) to align with new workflows, while leveraging **AWS Lambda** and API integrations (e.g., Bank of Canada revenue/treasury data) to automate ingestion and reduce manual intervention.
- Enhanced security and performance by centralizing **IAM** and **QuickSight** credential management into reusable **Python** configurations, while transforming procedural code into production-ready **Athena** workflows, reducing manual effort and improving dashboard load times by **25%**.

RideAlike

Product/Marketing Intern — Digital Strategy & Engagement

Toronto, ON

September 2023 – January 2023

- Conducted **competitive analyses** and **market research** to identify opportunities for **digital growth**, contributing to a **15%** lift in campaign engagement.
- Produced and published **social media posts** and **email campaigns**, increasing click rates by **20%**.
- Defined product **milestones**, **timelines**, and **deliverables** in **Monday.com** to guide feature rollout and cross-functional marketing initiatives.
- Leveraged **Google Analytics** to track **campaign performance**, optimize targeting and ad spend, and inform product positioning.

Technical Projects

League of Merchants, Turning Shopify Stores into Player Cards — OpenAI, Cohere, Hugging Face, JS/TS

- **Engineered the “Drip Score Framework”** — a weighted evaluation system that converts unstructured AI outputs into structured merchant performance metrics across factors like *Brand Vibes*, *Community Buzz*, and *Innovation Factor*.
- **Orchestrated API-driven workflows** to transform raw model responses into normalized scores, enabling consistent rankings and fair comparisons of **Shopify merchants** across categories.
- **Designed an interactive leaderboard UI** that displays merchants as **player-style cards** with their Drip Scores, making performance comparisons clear and engaging.

Awards & Certifications

AWS Specialization Demonstrated expertise in cloud computing principles and AWS solutions.

Google Analytics Certified Proficient in analyzing digital performance and user behavior to optimize strategies for growth.

First Runner Up, UCMAS Mental Math National Competition Outperformed **1,000+** nationwide.

Chancellors Scholarship Fund 1 of 2 recipients of the Chancellor’s Scholarship; total scholarships exceeding **\$10,000**.

Skills

Languages: Python, SQL, Bash, Scheme/Racket, Presto, Javascript/Typescript

Frameworks/Tools: Git, Terraform, REST APIs, PgAdmin, QGIS, Monday.com, VS Code, Node.js, Express

Databases/Cloud: PostgreSQL, AWS (Lambda, S3, Glue, QuickSight, Athena), Databricks