

# Zain Aamer Ghias

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🌐 LinkedIn | 🐙 GitHub | 📊 Portfolio

## Profile

Applied Statistics student focused on **data analytics, visualization, and business intelligence**, with hands-on experience developing and validating an **AI-assisted no-code data visualization platform**. Currently completing the **IBM Data Analytics Professional Certificate**.

## Education

University of Toronto

Expected Graduation: May 2027

Honours Bachelor of Science — Applied Statistics

Minors: Computer Science and Mathematics

## Experience

### Data Analyst Intern

African Geospace, San Francisco, USA (Remote)

Dec 2025 – Present

Project: Wholeviz (cloud-based, AI-assisted no-code data visualization platform)

- Validating **data pipelines**, joins, and transformations using **accuracy, precision, and recall** metrics to ensure correctness of **analytical outputs**
- Performing **data quality** checks and **QA validation** on data processing workflows, documenting edge cases and **data flow** requirements
- Documenting **data flows**, backend integration notes, and analytical logic to align with clear, user-facing visualizations; collaborating with analysts and engineers to ensure reliable **insight generation** and validate analytical outputs

### Software Engineer Intern

African Geospace, San Francisco, USA (Remote)

Sep 2025 – Dec 2025

Project: Wholeviz (cloud-based, AI-assisted no-code data visualization platform)

- Built **Visualize** interface for uploading data and generating AI-assisted charts, implementing **dashboard workflows** using React, Next.js, and Plotly
- Integrated chart configuration, live previews, and API-driven AI suggestions; implemented natural-language-to-chart UX flows connecting frontend components to AI services

### Frontend Developer

Digital Placemaking Canada, Toronto, Canada

Nov 2025 – Present

- Designing **dashboard layouts** and interactive visualizations for **KinesisIQ**, an AI-driven civic-intelligence platform
- Translating event schemas, system diagrams, and documentation into frontend prototypes; building UX flows and dashboard designs mirroring future **data contracts** for backend integration

## Projects

### • Customer & Product Profitability Analytics Dashboard 📄

Nov 2025

*SQL, Power BI* — Built **analytics dashboard** analyzing **18,432 transactions** from a retail dataset. Cleaned and **transformed data** in MySQL, engineered **business metrics** for revenue, profit, margin, and customer segments. Identified insights: **accessories drive profitability (18.7% margin)** vs. bikes (3.6%), and **ages 28-31 as highest-value demographic**. **Power BI dashboards** supporting product, pricing, and **customer segmentation** decisions.

### • Bike Share Toronto Analysis 📄

Sep – Oct 2025

*Excel, Tableau* — Cleaned and **modeled 537k** trip records, engineered fields for hourly, weekday, and station analysis. **Dashboards** showing **39.2% YoY ridership increase** and commuter patterns. Trip-level **financial model** estimating **13.2% revenue growth** (\$628k to \$712k), identified midweek peaks and casual riders as highest per-trip revenue segment.

## Certifications & Courses

IBM Data Analytics Professional Certificate — Coursera

Ongoing

Data Analysis: SQL, Tableau, Power BI & Excel — Udemy

Completed Oct 2025

## Technical Skills

**Languages:** Python, SQL, R, JavaScript, TypeScript

**Analytics & Visualization:** Power BI, Tableau, Excel, IBM Cognos, Plotly, Matplotlib

**Libraries & Frameworks:** Pandas, NumPy, scikit-learn, React, Next.js, Git