

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

Honours Bachelor of Science — Applied Statistics
Minors: Computer Science and Mathematics

Expected Graduation: May 2027

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