

# Zain Aamer Ghias

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## 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** used to create dashboards and charts. 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

*Relevant Coursework:* Data Analysis, Statistical Modelling, Regression, Databases, Machine Learning, Data Visualization

## Experience

**African Geospace** (*Remote*) — San Francisco, USA

Project: **Wholeviz** – cloud-based, AI-assisted no-code data visualization platform

### Data Analyst Intern

Dec 2025 – Present

- Validating data pipelines, joins, and transformations using **accuracy, precision, and recall** to ensure correct analytical outputs
- Performing **data quality** checks and documenting edge cases to align analytical logic with clear, user-facing visualizations
- Collaborating with analysts and engineers to document **data flows** and ensure reliable insight generation

### Software Engineer Intern

Sep 2025 – Dec 2025

- Built the **Visualize** interface for uploading data and generating AI-assisted charts, focusing on dashboard workflows and usability
- Integrated chart configuration, live previews, and API-driven AI suggestions using React, Next.js, and Plotly
- Implemented early natural-language-to-chart UX flows by connecting frontend components to existing AI services

**Digital Placemaking Canada** — Toronto, Canada

**Frontend Developer** (*Contract*)

Nov 2025 – Present

- Designing dashboard layouts and interactive visualizations for **KinesisIQ**, an AI-driven civic-intelligence platform
- Translating event schemas and system diagrams into frontend prototypes using mock API data
- Building UX flows that mirror future data contracts so backend systems can integrate later

## Projects

### • Customer & Product Profitability Analytics Dashboard 📄

Nov 2025

*SQL, Power BI* — Built an end-to-end 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 key insights: **accessories drive profitability (18.7% margin)** vs. bikes (3.6%), and **ages 28-31 as highest-value demographic**. Created interactive **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. Built dashboards showing a **39.2% YoY ridership increase** and commuter patterns. Developed a trip-level financial model estimating **13.2% revenue growth** (\$628k to \$712k) and 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