

# Aly Hussein

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## EDUCATION

**Kennesaw State University**, January 2022 – May 2025

Kennesaw, GA

*Bachelor of Science in Computer Science*

**GPA:** 3.6

**Relevant Courses:** Database Systems, Algorithm Analysis, Discrete math, Applied statistics and data analysis, Big data analytics, Information Retrieval, Regression Analysis, Machine learning, Python for Data science

**Dalton State University**, Fall 2019-December 2021

Dalton, GA

*Associate's degree in Computer Science*

**GPA:** 3.8

**Relevant Courses:** Programming 1 and 2, Data Structures, Calculus 1 and 2

## SKILLS

**Technical Skills:** SQL, Microsoft Excel, Python, DAX, Tableau, PowerBI, Microsoft Access, RStudio, PowerPoint, Git

**Languages:** English, Arabic, Spanish

## WORK EXPERIENCE

**Oldcastle Infrastructure**, *Product Master Analyst*

Remote | March 2025- Current

- Managed and maintained master data integrity in ERP and key systems, ensuring accuracy, completeness, and compliance with company policies.
- Performed data cleaning and quality control by updating product item codes, resolving data gaps, and standardizing processes to improve efficiency.
- Collaborated with cross-functional teams including Product Management, IT, and Sales to support data governance, streamline workflows, and enhance product information management.

**First Energy**, *Data Analyst Intern*

Remote | May 2024– December 2024

- Conducted in-depth analysis of public contact cases to strengthen safety protocols.
- Collaborated with the public safety team to identify trends and improve response strategies.
- Utilized DAX and Power BI to generate dynamic dashboards, supporting community-focused safety initiatives with actionable, data-driven insights.

**Generalized Robotics**, *Web Design Intern*

Kennesaw, GA | May 2023 – August 2023

- Collaborate in the development and maintenance of web page layouts and user interfaces using HTML and CSS.
- Participate in code reviews and gain experience with version control systems like Git.
- Help maintain and update content on websites, ensuring consistency and accuracy.

## PROJECT EXPERIENCE

**Airline Review Data Analysis**

- Analyzed airline review data using Python and Jupyter Notebooks, extracting insights into customer satisfaction and service quality.
- Employed data visualization techniques, including bar charts, scatter plots, pie charts, and line charts, to illustrate trends and correlations in customer ratings based on various factors such as seat comfort and cabin staff service.
- Conducted statistical analysis to determine the influence of factors such as food and beverage quality and Wi-Fi availability on overall customer ratings, informing strategic decisions to enhance the passenger experience.

**Employee Management Database**

- Developed a comprehensive SQL database for an employee management system, defining tables to store employee information such as personal information and department affiliations.
- Ensured data integrity and normalization using primary and foreign keys to minimize redundancy.
- Formulated SQL queries to retrieve and analyze employee data, utilized SQL JOIN operations, to extract meaningful insights.

**Personal Website:** <https://alyhussein2001.github.io/AlyHussein.github.io/>