

Allan Otieno | Computer Scientist.

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Personal Profile

I am a forward-thinking and results-oriented Computer Science student with a strong foundation in software development, data analysis, and machine learning. My expertise spans across creating insightful dashboards, marketing analytics, and predictive modeling, showcased in projects such as developing a comprehensive Excel dashboard for UK road accidents, an HR Full Insight Dashboard using Power BI, sales prediction, web scraping, and fraud detection solutions using Python. My passion for leveraging technology to solve real-world problems drives me to continuously expand my skill set, particularly in data visualization, MLOps, and AI-driven solutions. With hands-on experience in building intuitive dashboards and predictive analytics tools, I am committed to helping organizations unlock the potential of their data to make strategic decisions.

Education and Qualifications

Bachelor of Science in Computer Science (2022 – 2025)

Zetech University | **Cumulative GPA:** 3.80/4.00

- Relevant coursework: Big Data, Data Science, Machine Learning, Internet Programming, Networking, Telecommunications
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Work Experience

Zetech University | Data Science and Analytics Team Leader (2023 – Present)

Summary: Leading a team of aspiring data scientists, focusing on SQL education and real-world application projects. Overseeing training sessions, project development, and stakeholder engagement.

Responsibilities:

- Improved team members' SQL proficiency, leading to successful database projects using GitHub for version control.
- Led the development of a collaborative SQL roadmap repository on GitHub with 100% team participation.
- Facilitated workshops on SQL fundamentals and database management, ensuring timely project delivery and alignment with industry standards.

Shofco Organization | Data Analyst Intern (2022 – 2023)

Summary: Supported data management and analysis activities to provide actionable insights for organizational decisions.

Responsibilities:

- Cleaned, analyzed, and visualized datasets to track program performance.
 - Delivered reports to stakeholders, highlighting key metrics and actionable recommendations.
 - Used Python and Excel for data analysis and presentation, streamlining data workflows.
 - Conducted data analysis, visualization, and reporting to support decision-making.
 - Utilized Python and SQL for data extraction, transformation, and analytics.
 - Assisted in implementing automation scripts for data management processes.
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Core Skills

- **Networking & Infrastructure:** Fiber optics, routing & switching, network performance monitoring
 - Network Performance Monitoring – Deployed Zabbix and Nagios for real-time monitoring and performance tracking.
 - Fiber Optic Link Diagnostics – Conducted OTDR tests and implemented proactive maintenance strategies.
 - PoP Site Power Optimization – Designed and installed backup power solutions for network infrastructure.
 - **Network Hardware:** Core routers, switches, fiber transceivers, firewalls
 - **Network Protocols:** OSPF, VPN, VLAN
 - **Network Tools:** Wireshark
 - **Programming Languages:** Python, R, SQL, JavaScript, C++
 - **Data Analysis & Visualization:** Excel, Power BI, Tableau
 - **Machine Learning:** Predictive modeling, classification, clustering
 - **Database Management:** MySQL, SQL Server Management Studio (SSMS)
 - **Web Scraping & Automation:** BeautifulSoup, Selenium
 - **Project Management:** Agile methodologies, cross-functional communication
 - **Cloud Computing:** AWS, Google Cloud (Basic)
 - **Technical Tools:** Git, GitHub, Jupyter Notebooks, VS Code
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Courses and Certifications

- **Feature Engineering Course | Kaggle | 2024**
 - **Full MySQL Course | 2024**
 - **Network Troubleshooting and Administration | Coursera | 2024**
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Additional Achievements

- Participated in **Zetech University Research and Innovation Week**, engaging with Augmented Reality applications.
 - Successfully completed a **project on Kiswahili hate speech analysis**, showcasing NLP expertise.
 - Developed an **image classification project using a mobile device**, demonstrating deep learning skills.
 - Created a **Premier League match prediction model**, applying statistical analysis and machine learning techniques.
 - Mentored W2F, ELIMU, and JKIF scholars in secondary schools on career development and data science.
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Technical Projects

- **Web Scraping Project:** Extracted and analyzed company revenue data from Wikipedia.
 - **HR Full Insight Dashboard:** Created an interactive dashboard using Power BI for HR analytics.
 - **Credit Card Fraud Detection:** Applied machine learning algorithms to detect fraudulent transactions.
 - **Sales Prediction Analysis:** Developed a predictive model for sales forecasting.
 - **employee performance tracker in excel:** Designed an Excel-based tool to track and evaluate employee performance and compliance with company policies. The tracker includes individual scores for multiple tests, overall performance analysis, and identification of employees needing improvement, demonstrating your ability to create practical business solutions.
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Additional Information

- **Availability:** Open to 24/7 emergency response as required by network operations.
- **Work Ethic:** Detail-oriented, proactive, and skilled in high-pressure troubleshooting scenarios

