Ronald Kiptulwo Kimutai

Location: Nairobi, Kenya

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Professional Summary

Final-year BSc in Information Technology student at KCA University with hands-on experience in **web development, database management, and data analysis**. Skilled in building **high-performance systems**, implementing **data visualization** solutions, and applying **Python automation** techniques. Passionate about creating **efficient, user-friendly applications** and leveraging **modern technologies** for problem-solving.

Education

Bachelor of Science in Information Technology
KCA University, Nairobi, Kenya
Aug 2022 – Present *(Expected Graduation: Nov 2026)*

Kenya Certificate of Secondary Education (KCSE)
Tambach Boys High School
2018 – 2021

Kenya Certificate of Primary Education (KCPE)
Kipsaraman Primary School
2008 – 2017

Certifications

- Cisco Certified: Data Analysis Essentials
- Cisco Certified: Python Essentials

Experience

Self-Employed – Database & Web Developer
June 2025 – Aug 2025

Student Records Database System

- Built a **high-performance PostgreSQL system** managing **200,000+ students** and **1M+ enrollments**
- Designed **partitioned tables** for improved performance and scalability
- Developed **Python scripts** for data generation, auditing, and reporting automation
- Achieved **85–93% query performance improvement** through **indexing & materialized views**

- Documented system architecture and performance analysis in detail for academic use

Technologies Used: PostgreSQL, Python, pgAdmin, DBdiagram.io

Technical Skills

- **Programming:** Python, HTML, CSS, JavaScript
- **Database Management:** PostgreSQL, MySQL
- **Web Development:** Frontend & Backend Development
- **Data Analysis & Visualization:** Tableau, Jupyter Notebook
- **Version Control & Tools:** Git, GitHub, VS Code
- **Soft Skills:** Problem-Solving, Communication, Self-Motivation, Continuous Learning