

Job Kiprotich Busienei  
Nairobi, Kenya | +254 707 696 045 | [jobtanui21@gmail.com](mailto:jobtanui21@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

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## Professional Summary

Versatile and results-driven **Software Engineering Intern** with a strong foundation in **computer science, scalable application development, and cloud-based solutions**. Proficient in **Python, Java, JavaScript, and SQL**, with expertise in **React, Django, and AWS**. Passionate about **algorithmic problem-solving, data-driven decision-making, and building efficient, scalable systems**. Adept at **optimizing performance, implementing secure architectures, and developing AI-driven solutions**. Enthusiastic about **collaborative development, digital transformation, and technology innovation**.

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## Professional Experience

### Kenya Power – ICT & Telecommunication Division

#### Software Engineering Intern | January 2024 - July 2024

- **Developed and launched a Device Check-In/Out System**, reducing inventory errors by **30%**.
  - **Diagnosed and resolved 50+ network and system issues**, leading to **higher system reliability**.
  - **Optimized system performance**, enhancing operational efficiency by **25%**.
  - **Refactored system algorithms**, improving data processing speed by **15%**.
  - **Designed and streamlined workflows**, increasing software stability and maintainability.
  - **Developed an internal knowledge base**, improving troubleshooting efficiency and onboarding for new team members.
  - **Collaborated with cross-functional teams** to enhance IT service delivery and efficiency.
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## Technical Skills

- **Programming Languages:** Python, Java, JavaScript, C#, SQL
  - **Web Development:** React, Node.js, Django, HTML, CSS
  - **Frameworks & Tools:** Django, React, Node.js, MySQL, Git, GitHub
  - **Cloud Computing:** AWS (EC2, S3, Lambda, CloudFormation, IAM, Scalable Infrastructure)
  - **DevOps & Automation:** Docker (containerization), GitHub Actions (CI/CD)
  - **Software Development:** Algorithms, Data Structures, API Development, Software Optimization, System Scalability
  - **Cybersecurity:** Penetration Testing, Vulnerability Analysis, Network Security
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## Highlighted Projects

### SwiftX - Transportation Management Platform ([GitHub Repository](#))

- **Designed and engineered a real-time transportation management system**, processing **100+ simulated bookings** seamlessly.
- **Developed the frontend (React, JavaScript) and backend (Node.js, MySQL)** for smooth and scalable interactions.
- **Integrated geolocation tracking and secure payment systems**, enhancing user experience and security.
- **Implemented workflow enhancements**, ensuring seamless operation of the platform.

### Django-Based CRM Platform ([GitHub Repository](#))

- **Architected a scalable CRM system** using Django and PostgreSQL, boosting **query efficiency by 40%**.
- **Integrated secure authentication and RESTful APIs**, ensuring data integrity and controlled access.
- **Developed automated dashboards**, improving real-time customer engagement tracking by **30%**.
- **Built an automated reporting system**, streamlining data entry and analysis, cutting down manual workload by **35%**.
- **Refined database structures**, enhancing system usability and data accessibility.

### Charge Monitor - Battery Optimization Tool ([GitHub Repository](#))

- **Engineered a battery monitoring tool** in C# for Windows, achieving **95% accuracy in charge notifications**.
- **Developed a responsive UI**, making the tool accessible for all users.
- **Implemented background monitoring and alerts**, reducing battery overcharging incidents by **25%**.
- **Optimized energy efficiency algorithms**, extending battery lifespan and improving power management.
- **Refactored codebase**, making the software more maintainable and scalable.

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## Certifications & Technical Training

- **AWS re/Start Bootcamp**: Hands-on training in **cloud computing, AWS services, and security best practices**, leading to Amazon Certified Cloud Practitioner certification (Credential: [Credly](#), [LinkedIn](#)).
- **Power Learn Project (PLP) Bootcamp**: Specialization in **full-stack development, software engineering, and database management**, with a focus on **startup entrepreneurship** (Credential: [LinkedIn](#)).
- **IBM Cybersecurity Fundamentals Bootcamp**: Extensive training in **network security, penetration testing, and threat analysis** (Credential: [Credly](#), [LinkedIn](#)).
- **Wells Fargo Software Engineering Job Simulation on Forage** - March 2025 ([LinkedIn](#))

- Understood relevant requirements for building a system to manage financial portfolios.
  - Figured out what data the system needed to keep track of.
  - Drafted a visual representation of the data as an **entity relationship diagram (ERD)**.
  - Used the **IntelliJ developer application** to implement the ERD and published it to GitHub.
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## Education

### Diploma in Computer Programming

Cooperative University, Karen, Nairobi | **August 2022 - December 2025**

- Member, **Google Developer Student Club (GDSC)**
  - Proficient in **data structures, advanced programming concepts, and full-stack development**.
  - **Final-Year Project:** Built a **cloud-based web application** integrating frontend, backend, and database systems.
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## Soft Skills

- **Reliability & Versatility**
  - Critical Thinking & Problem-Solving
  - Effective Collaboration & Teamwork
  - Strong Verbal & Written Communication
  - Adaptability & Continuous Learning
  - Attention to Detail & Quality Assurance
  - **Innovative & Enthusiastic Approach to Software Engineering**
  - **Productive & Results-Oriented Mindset**
  - **Algorithmic Thinking & Software Optimization**
  - **Leadership & Cross-Functional Collaboration**
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## Additional Information

- **Active GitHub contributor**, showcasing a diverse range of open-source projects.
- **Passionate about cloud computing, DevOps, and AI-driven automation.**
- Open to **remote or on-site software engineering roles globally.**
- Committed to continuous learning in **software development, algorithms, and performance optimization.**