

# David Muthui

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## OBJECTIVE

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A highly analytical and technically proficient Computer Science graduate seeking a challenging role in Software Development, Web Development, Technical Consulting, or Systems Administration. Passionate about leveraging expertise in web technologies, full-stack development, cross-platform solutions (Dart & Flutter), system design, network maintenance, and security principles to deliver scalable, secure, and efficient technical solutions. A dedicated team player focused on problem-solving, continuous improvement, comprehensive documentation, and supporting high-performance ICT infrastructure and organizational goals.

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## SKILLS

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### Programming & Development

- Python, Java, JavaScript, Dart, SQL, HTML, CSS
- Frameworks & Tools: Flask, Flutter (Dart), PyTorch, Scikit-learn, Git, PHP, Apache
- Full-Stack Development, Web Development (specialization), Mobile Application Development, SDLC

### Web Technologies

- HTML, CSS, JavaScript, Responsive & Adaptive Design
- Backend Frameworks (Flask, PHP), RESTful APIs, Web Application Architecture & Deployment
- Cross-Platform Web & Mobile Development (Flutter for Web & Mobile)

### Database Management

- MySQL, Firebase, phpMyAdmin, SQLite
- Database Design, Normalization, Query Optimization, CRUD Operations, Data Integrity & Security

### Technical Support & Infrastructure

- Network Configuration (LAN/Wireless), Hardware/Software Troubleshooting & Maintenance
- Operating Systems (Windows/Linux), System Implementation & Optimization
- Tier 1 & 2 Technical Support, ICT Inventory Management, User Training & Documentation

### Data & Security Management

- Data Analysis, Machine Learning, Federated Learning
- Disaster Recovery Planning, Role-Based Access Control (RBAC), Intrusion Detection
- System Security Implementation, Secure Authentication, Input Validation

### Soft Skills

- Team Collaboration & Leadership
- Clear Communication & Stakeholder Engagement

- Analytical Thinking & Critical Problem-Solving
- Adaptability, Time Management & Working Under Pressure
- Customer Support, User Training & Knowledge Transfer
- Attention to Detail, Confidentiality & Professional Documentation

## Languages

- English (Fluent), Swahili (Fluent)

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## EDUCATION

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<b>Catholic University of Eastern Africa</b>   <i>BSc in Computer Science</i>	Nairobi, Kenya   <b>09.21-10.25</b>
<b>Utumishi Boys Academy</b>   <i>Kenya Certificate of Secondary Education</i>	Gilgil, Kenya   <b>01.17-04.21</b>

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## EXPERIENCE

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**Data Entry Specialist** | *Datum Analytics Ltd (Client: KNEC)* Nairobi, Kenya | **12.25 – 12.25**

- Participated in a highly sensitive, national-level KCSE marks data entry exercise, supporting the processing of examination results under strict timelines and rigorous security controls.
- Accurately entered large volumes of KCSE examination marks from paper-based scripts into secure digital systems, emphasizing speed, accuracy, and completeness.
- Verified and cross-checked data entries to ensure correctness, consistency, and full compliance with KNEC data standards and protocols.
- Flagged unclear, incomplete, or inconsistent records for review in line with established escalation procedures.
- Consistently met and exceeded daily productivity and quality targets in a high-pressure, fast-paced environment.
- Took on additional high-level responsibilities beyond the assigned role due to increased workload and tight national deadlines, including:
  - Initiating marks amendments (a responsibility typically reserved for KNEC ICT Supervisors)
  - Assisting in the approval of initiated amendments (a duty usually performed by senior KNEC approvers)
  - Maintained strict confidentiality, data integrity, and professionalism while adhering to all data protection, security, and vetting requirements.
- Worked collaboratively in an on-site, residential setup, demonstrating high discipline, reliability, and ability to sustain long hours under pressure to meet national deadlines.

**ICT Systems Support & Maintenance Assistant** | *Zetech University* Nairobi, Kenya | **05.24–08.24**

- Provided Tier 1 and Tier 2 technical support to university staff and students, significantly improving the availability, performance, and reliability of internal ICT systems.
- Diagnosed and resolved hardware, software, and network-related issues (LAN/Wireless), ensuring minimal downtime for academic and administrative operations.

- Supported backend system maintenance, including OS upgrades, security patching, performance optimization, and printer maintenance (Kyocera models).
- Managed ICT inventory, tracking hardware assets, software licenses, user allocations, and lab equipment performance.
- Assisted in managing ICT computer labs, monitoring equipment, and guiding users on proper software usage and safe ICT practices.
- Conducted network troubleshooting, Ethernet cable crimping, and user support for the university ERP system through guidance, troubleshooting, and clear documentation.

### **Lead Systems Developer & Administrator** | *Cross-Border Bus Booking System* Nairobi, Kenya | **11.24-04.25**

- Led the full-cycle planning, design, development, and implementation of a high-availability full-stack web application using PHP, MySQL, and Apache to support multiple concurrent users.
- Implemented robust security features including Role-Based Access Control (RBAC), password hashing, secure session management, and input sanitization/validation.
- Developed integrated maintenance tracking module allowing technicians to log repairs, service history, and schedules.
- Built comprehensive data-driven reports and dashboards (Bus Utilization, Maintenance Records, Payment Tracking, Booking Analytics) to support management decision-making.
- Designed and implemented user-specific modules for customers, drivers, technicians, and administrators, including seat-selection logic, payment integration, route/bus management, and real-time analytics.

### **Data Security & System Design Intern** | *Federated ML for Diabetes detection* Nairobi, Kenya | **01.25–04.25**

- Contributed to the design and implementation of a secure, privacy-preserving federated learning system enabling hospitals to collaboratively train deep learning models without sharing sensitive patient data.
- Documented complete system architecture, data flows, security considerations, and knowledge management protocols for multi-institution collaboration.
- Supported model deployment using Flask API and ONNX runtime for efficient, fast inference across distributed environments.
- Participated in research, data analysis, and requirement refinement to enhance model prediction accuracy and system usability.
- Assisted in developing clinician-facing and hospital dashboards for viewing predictions, insights, and federated training progress.

### **Mobile Application Systems Developer** | *Mobile Notebook Application* Nairobi, Kenya | **09.23–12.23**

- Led the full lifecycle design, development, testing, and deployment of a mobile notebook application using Java and Firebase (for real-time database and authentication).
- Engineered an intuitive, user-centric interface and performed comprehensive system testing to ensure usability, reliability, and availability.

- Managed application deployment processes, including version control with Git, architecture documentation, and administrative setup.

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## REFERENCES

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**Brian Ouma**

Zetech University, Nairobi Kenya

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