

Thomas Sikanga Maungu

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Professional Summary

Django & Android Developer with 1.5 years of practical experience in building scalable web applications using **Python**, **Django**, and **Android Studio**. Skilled in designing and implementing **RESTful APIs** using **Django REST Framework (DRF)** and optimizing **MySQL** database performance. Contributed to the development of both backend and frontend systems in **Agile** environments, focusing on delivering user-centered solutions. Continuously learning and applying new skills in web and mobile development.

Skills

- **Programming Languages:** Python, JavaScript, HTML, CSS, Java, C++, PHP
 - **Web Frameworks & Libraries:** Django, Django REST Framework (DRF), React, Laravel, Yii2
 - **Mobile Development:** Android Studio (Java)
 - **Databases:** PostgreSQL, MySQL, SQLite, Firebase
 - **Version Control & Collaboration:** Git, GitHub
 - **Web Technologies:** RESTful APIs, HTML5, CSS3, JavaScript (React)
 - **Data Analysis & Tools:** Excel, Pandas, NumPy, SciPy, Matplotlib, SQL
 - **Development Tools:** PyCharm, Visual Studio Code, Jupyter Notebooks
 - **Testing:** Unit Testing (Pytest, Django Test Framework)
 - **Methodologies:** Agile, Scrum, CI/CD, Jira
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Professional Experience

Django Developer | Equator College

June 2022 – Present

Location: Utawala, Nairobi

- Develop, deploy, and maintain **Django-based** web applications using **Python** to streamline internal processes.
- Design and implement **RESTful APIs** with **Django REST Framework (DRF)** for seamless backend-to-frontend communication.

- Optimize **MySQL** database models and queries to improve performance, achieving a **30% improvement** in response times.
- Collaborate with cross-functional teams to define technical requirements and deliver solutions on time in an **Agile** environment.
- Contribute to backend and frontend systems, focusing on writing clean, maintainable code.
- Write unit and integration tests to ensure application stability and robustness.
- Use **Git** for version control and collaborate with the team through daily stand-ups and sprint planning.

Key Achievements:

- Delivered a full-scale **Django** application, improving internal workflow and student management processes by **30%** in efficiency.
 - Developed and integrated an **API** for third-party services, improving system functionality and cutting data processing time by **20%**.
 - Optimized database queries, resulting in a **30% performance boost** in system response time.
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Projects

1. Equator College School Management System

Django Web Application

Technologies: Python, Django, MySQL, Bootstrap

- **Description:** A web-based application to manage student data and streamline internal administrative processes.
- **Key Contributions:** Developed backend architecture, designed and implemented the database, created **RESTful APIs**, optimized queries, and wrote unit tests for system stability.
- **GitHub:** github.com/sikthomas/Equator

2. Constituencies Bursary Management System

Django Web Application

Technologies: Python, Django, MySQL, React

- **Description:** A system that allows students to apply for bursaries from their constituencies.
- **Key Contributions:** Full-stack development, including backend/frontend design, database design, API development, integration, unit testing, and deployment.
- **Project Link:** bursary.pythonanywhere.com
- **GitHub:** github.com/sikthomas/Bursary

3. Internship Management System (IMS)

Ongoing Django Web Application

Technologies: Python, Django, Django REST Framework, MySQL, React

- **Description:** A system to monitor and manage students' industrial attachment work.
- **Key Contributions:** Responsible for project planning, database design, backend development, and frontend integration. Currently working on ongoing development and deployment.
- **GitHub:** github.com/sikthomas/Internship-Management-System

4. Billboard Android App

Android Mobile Application

Technologies: Java

- **Description:** An Android application for e-commerce trading at the University of Kabianga.
- **Key Contributions:** Developed backend architecture and designed the user interface.
- **GitHub:** github.com/sikthomas/billboard

Education

Degree in Computer Science

University of Kabianga – 2019

Location: Kericho, Kenya

Additional Information

- **Languages:** Fluent in English and Kiswahili
- **Interests:** Web development trends, open-source contributions, and attending technology meetups

References

Patricia Wairimu- Admin – Equator College

Phone No :0111341083

Metrine Wanjala. Head of Examinations – Equator College

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