

# CECILIA WANGUI MUTERO

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## PROFILE SUMMARY

Detail-oriented and proactive Python/Django Developer with one year of experience in designing, developing, and deploying backend solutions. Proficient in Python, Django, Flask, and AWS, with a strong foundation in full-stack development, including React.js, Node.js, and MongoDB. Demonstrated success in creating scalable and secure web applications, optimizing database performance, and enhancing user engagement. Proficient in RESTful APIs, ORM, and Agile methodologies, with expertise in version control using Git. Recognized for problem-solving skills, adaptability, and collaborative team contributions. Passionate about delivering high-performance systems and continuously improving technical expertise.

## KEY COMPETENCIES

- **Backend Development:** Proficient in Python and Django, leveraging these technologies to design and develop scalable, high-performance backend solutions for web applications.
- **Web Frameworks:** Expertise in Flask and Django, building secure, efficient, and user-friendly web platforms with a focus on scalability and maintainability.
- **Cloud Computing:** Experienced with AWS (S3, EC2), utilizing cloud platforms to deploy applications and manage scalable storage solutions for media assets and data.
- **Database Management:** Skilled in PostgreSQL and MySQL, optimizing database performance, query efficiency, and data integrity to improve application speed and reliability.
- **Full-Stack Development:** Competent in both front-end (JavaScript, HTML, CSS) and back-end development, using tools like React.js, Node.js, and MongoDB to create dynamic web applications.
- **API Development:** Expertise in developing and integrating RESTful APIs, ensuring seamless communication between the front-end and back-end for enhanced system performance.
- **Version Control:** Proficient in Git and GitHub, utilizing version control systems for code management, collaboration, and tracking development progress in Agile environments.
- **Agile Methodologies:** Experienced in Agile development practices, contributing to sprint planning, code reviews, and efficient project delivery in cross-functional teams.

## MAJOR ACCOMPLISHMENTS

- **E-Commerce Platform Development:** Successfully developed and launched a scalable e-commerce platform using Flask, Python, AWS, ORM, JavaScript, HTML, and CSS, enhancing both user engagement and performance.
- **Improved Database Performance:** Optimized database performance with PostgreSQL, reducing API response times by 30% and significantly increasing application speed.
- **User Security Implementation:** Designed and implemented secure user authentication mechanisms using Flask-login and JWT, ensuring robust session management and data protection.
- **Increased User Engagement:** Enhanced user experience by designing responsive front-end components that increased user engagement by 25%, ensuring seamless navigation and usability.
- **Top-Performing Student Recognition:** Acknowledged as the top-performing student at ALX Africa, delivering high-impact projects under tight deadlines and exceeding performance expectations.
- **System Reliability and Code Quality:** Achieved 95% test coverage and system reliability by writing comprehensive unit and integration tests, ensuring the delivery of bug-free applications.
- **Cross-functional collaboration:** Collaborated effectively with cross-functional teams in an Agile environment, contributing to sprint planning, code reviews, and successful deployments.

## CAREER HIGHLIGHTS

Software Engineer student  
ALX Africa

March 2023 – October 2024

- **E-Commerce Platform Development:** Designed and developed a scalable e-commerce platform using Flask, Python, AWS, ORM, JavaScript, HTML, and CSS, delivering a seamless user experience and boosting system performance.

- **User Authentication Security:** Implemented secure user authentication mechanisms using Flask-login and JWT, ensuring robust session management and protecting sensitive user data.
- **Database Optimization:** Optimized database performance with PostgreSQL, improving query efficiency and reducing API response times by 30%, resulting in enhanced application speed.
- **Front-End Development:** Developed responsive front-end components with HTML, CSS, and JavaScript, increasing user engagement by 25% through improved interface design and functionality.
- **Cloud Storage Integration:** Integrated AWS S3 for scalable media asset storage, ensuring reliable data handling and consistent performance across the application.
- **Agile Team Collaboration:** Contributed to Agile sprint planning, code reviews, and team discussions, ensuring timely project delivery and continuous improvement.
- **Unit and Integration Testing:** Wrote comprehensive unit and integration tests, achieving 95% test coverage and ensuring the reliability and stability of the developed systems.
- **API Development:** Developed and integrated RESTful APIs, enhancing communication between front-end and back-end components for improved application functionality.
- **Code Quality Assurance:** Maintained high code quality by adhering to best practices in coding standards, documentation, and version control using Git and GitHub.
- **Project Delivery Excellence:** Delivered high-impact backend development projects on time, earning recognition as the top-performing intern for exceptional technical contributions.

## ACADEMIC QUALIFICATIONS

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- February 2013 – December 2017: University of Nairobi - **Bachelor of Arts.**

## PROFESSIONAL TRAINING AND CERTIFICATIONS

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- March 2023 – October 2024: ALX Africa - **Certificate in Software Engineering.**

## PROJECTS

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- **E-Commerce Platform Development:** Designed and deployed a scalable e-commerce platform featuring secure user authentication, product catalog, and real-time order processing. Utilized Flask, Python, AWS (S3, EC2), ORM, PostgreSQL, HTML, CSS, and JavaScript to deliver a robust, high-performance solution.
- **Personal Portfolio Website:** Built a personal portfolio to showcase projects, technical skills, and achievements using React.js, Node.js, MongoDB, and GitHub. Demonstrated full-stack development proficiency and modern web technologies.

## REFEREES

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Available upon request