Catherine Nanyala

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Profile

 Backend Software Engineer with a background in computer science and strong foundation in Python and Django. Skilled in API development, database design, and secure backend systems. Passionate about building efficient and scalable applications that solve real-world problems. Recently completed a 6-month intensive backend web development program with ALX Africa.

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Experience

Alx Africa

Backend Developer

Nov 2024 - Apr 2025

- Participated in an intensive 6-month training program focused on backend web technologies.
- Learned and applied core backend development tools such as Python, Django, and RESTful API principles through guided and self-directed projects. Collaborated with peers remotely using Git, GitHub, and project management tools.
- Successfully developed and deployed a real-world backend project (Fitness Tracker API), enhanced my understanding of secure user authentication, and improved my ability to design scalable web services.

ALX Africa

UX Designer – Team-Based Project
Jul 2024 - Aug 2024

- Contributed to the design and development of a problem-solving solution focused on real-life community issues.
- Engaged in research, persona creation, design sprinting, and prototyping using collaborative tools.
- Gained experience in user empathy, design thinking, and teamwork under tight deadlines.

System Developer(Intern)
Brainverse Technologies

May 2025 – Aug 2025 | Remote

- Contributed to backend development using Laravel (PHP),
- Designed and tested RESTful APIs with Postman and JWT authentication.

- Collaborated on Paulines Africa E-Commerce Platform (https://shop.paulinesafrica.org/):

  - Integrated ebooks into the main catalog search for better discoverability.

  - Restored the backend search engine, improving content management efficiency.

  - Enhanced the dashboard with Chart.js visualizations for product and visit insights.

- Developed Onboarding Module for both retailer and supplier for the Item Project with multi-step forms, database migrations, and Eloquent relationships.
- Gained hands-on experience in Laravel development (MVC architecture, Eloquent ORM, Blade templating), RESTful API design and testing with Postman and JWT authentication, database design and management with MySQL, frontend integration using Bootstrap and Chart.js,

as well as version control and collaboration with Git/GitHub

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Projects

Fitness Tracker API – ALX Backend Development
Duration: Nov 2024 – Apr 2025

[Projects link](#)

- Designed and implemented a RESTful API for a fitness tracking system using Django and Django REST Framework.
- Created endpoints for user registration, login, and fitness activity logging. Added filtering and sorting logic, and built a custom admin dashboard.
- Delivered a secure, fully functional API with authentication, tested core functionality with unit tests, and enhanced user experience via organized activity tracking.

Mkulima Smart – Team UX Project (ALX Foundation Phase)
Duration: Aug 2024 – Sep 2024

[presentation link](#)

- Designed a mobile/web solution for smallholder farmers to access localized weather and market information.
- Collaborated in a multidisciplinary team, conducted user interviews, developed personas, and created a low-fidelity prototype.
- Strengthened my skills in teamwork, UX design, and research, and helped lay the groundwork for a user-centered agri-tech platform.

Task Manager (Django, HTML, CSS, JavaScript)

project link

- Developed a full-featured task management system with secure user authentication, personalized dashboards, and in-app reminders.

- Implemented advanced features such as task prioritization, categories, subtasks, drag-and-drop reordering, file attachments, and archiving.

- Delivered a robust solution combining backend scalability with dynamic frontend interactivity, .

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Education

- **Kibabii University/Diploma Computer Science**
  Aug 2022 - Date

- **Alx Africa / Remote**
  Nov 2024 - April 2025

  Backend Web Development

- **Turbo GirlsHigh School / KCSE**
  2018 - 2021.

- **Moi Barracks PrimarySchool / KCPE**
  2010 - 2017

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Skills

Programming Languages: Python, PHP, SQL.

Frameworks & Tools: Django, Laravel, MySQL, RESTful APIs, Postman, JWT Authentication, Git, GitHub.

Technical Skills: Backend Development, API Design & Testing, Database Management, Debugging & Troubleshooting, Version Control.

Soft Skills: Problem-Solving, Critical Thinking, Communication, Collaboration, Attention to Detail.

Reference

Micheal Mutoro

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Senior Software Engineer