PREVYNE OKECH ODHIAMBO

Python Backend Engineer | Django REST | AI Integration | Microservices Architecture

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SUMMARY

Python backend developer with strong skills in Django REST Framework and PyQt6 for desktop applications. Successfully delivered a responsive job board API and an AI-Powered skill-matching platform leveraging Scikit-learn, demonstrating ability to integrate machine learning with backend systems. Dedicated to developing innovative, high-performance backend services tailored to user needs.

TECHNICAL SKILLS

Programming languages: Python, JavaScript, SQL.

Frameworks: Django, Django REST Framework, PyQt6, Kivy, Flask.

Tools: Linux, Git, Docker, Kubernetes, Postman, Swagger, Celery, Redis, Nginx.

AI/Data: Scikit-learn, TensorFlow, Pandas.

SOFT SKILLS

Remote collaboration · Technical Documentation · Prioritization · Confidentiality & discretion · Proactive communication

TRAINING EXPERIENCE

alx   Nairobi, Kenya
Backend ProDev Engineering Fellow   06/2025 - 10/2025

Advanced program builds professional backend web apps, emphasizing mastery in modern tech, frameworks, and DevOps for scalable, secure solutions. Combines technical skills with professional foundations.

- Curated secure, well-documented RESTful APIs for server-client communication using Python and JavaScript.
- Implemented microservices architecture integrating third-party services to build scalable systems.
- Enhanced database performance with advanced SQL queries and optimized schemas.
- Leveraged Docker and Kubernetes for container orchestration, improving deployment efficiency.
- Utilized DevOps tools like GitHub Actions, Git, Celery, Redis, Nginx and Postman for continuous integration and deployment.
- Gained proficiency in Django framework for backend services.
- Maintained comprehensive technical documentation and progress logs to support project transparency.

PROJECTS

Class Attendance management System   06/2025 - 07/2025

Developed a modern, intuitive desktop application to track student attendance efficiently. Built with Python and PyQt6, it provides a clean, intuitive interface for managing students, classes, and attendance records in CSV format.

- Frameworks: PyQt6.
- Tools: PyQt Designer.
- Source Code: *https://github.com/prevyne/lm-present.git.*

Project Nexus Job Board API   09/2025 - 10/2025

Designed a fully responsive database API for a job board platform using Django REST Framework. The API is structured using Django REST Framework and documented with Swagger API. It uses a token-based session authorization system and Simple-JWT for user authentication.

- Frameworks: Django, Django REST Framework, Simple-JWT.
- Tools: Git, PostgreSQL, Celery, Redis, Postman, Swagger, CORS Headers.
- Source Code: *https://github.com/prevyne/project-nexus-backend-for-a-job-board-platform.git*

AI-Powered Job-Skill matching Platform   06/2025 - 07/2025

Developed an AI - powered job searching platform which tailors job recommendations to a jobseeker's profile leveraging a Scikit-learn token matching algorithm to match the jobseeker's skills to job descriptions.

- Frameworks: Django, Django REST Framework, Bootstrap, Scikit-learn.
- Tools: Git, SQLite3.
- Source Code: *https://github.com/prevyne/Joblify-job-skills-matching-platform.git.*

EDUCATION

Kabarak University   09/2020 - 12/2024
B.Sc. IT

- Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Network Security, Artificial Intelligence.

CERTIFICATIONS

Backend ProDev Engineer - ALX | Full stack Software Engineering - PLP | Professional Foundations - ALX | Virtual Assistant - ALX