ALPHONCE OCHIENG ASAKA
Petroleum Engineer | Junior Software Developer | Environmentalist

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PROFESSIONAL SUMMARY

Petroleum Engineering graduate with practical experience in geothermal drilling operations, reservoir management, and well-logging. Proficient in ArcGIS, satellite imagery analysis, Python, SQL, JavaScript, and SolidWorks. Developed and maintained full-stack web applications and GIS-based energy projects, including wind energy site selection. Committed to applying software and data-driven solutions to address energy and climate challenges, with emerging interests in blockchain and machine learning.

EDUCATION

BSc, Petroleum Engineering (Exploration and Production)
Mount Kenya University, Thika, Kenya | 2020 – 2024

- Second Class Honours (Upper Division)

Kenya Certificate of Secondary Education (KCSE)
Kanga High School, Migori, Kenya | 2016 – 2019

- Mean Grade: A-

PROFESSIONAL EXPERIENCE

Website Management
Be Well and Green Network, Kenya | 2025

- Led the setup and deployment of a full-stack digital platform to manage NGO operations, donations, and multilingual content.
- Interpreted satellite imagery data to map reforestation zones and community impact metrics.
- Integrated user-friendly dashboards to track project KPIs in real time.

Petroleum Engineering Trainee
KenGen, Olkaria, Naivasha, Kenya | 2022

- Undertook geological and geophysical data interpretation to support wellbore trajectory planning, enhancing drilling accuracy in geothermal wells.
- Helped the drilling team to provide real-time monitoring of drilling parameters, which aided safe operations at a low cost.
- Performed geothermal reservoir analysis using data analytics to evaluate the well productivity and steam capacity.

- Worked with a multi-disciplinary team on site operations and learnt to build good communication and teamwork skills in high-stakes environments.

LEADERSHIP & IMPACT

Digital Transformation Lead | Sustainability Champion
Society of Petroleum Engineers (SPEMKU), Mount Kenya University | 2022 – 2024

- Redesigned the SPEMKU student chapter's LinkedIn page, boosted participation in their activities by 30%, and tutored more than 20 students in useful energy-related digital tools.

- Team members joined forces with Student Energy to increase awareness of renewable energy and built partnerships across universities, aiming at sustainability.

- Organizing seminars connecting more than 150 students across Kenya, allowing them to discuss Africa's energy future with industry specialists.

Tech-Enabled Educator
Thika Green Energy Initiative, Thika, Kenya | 2021 – 2022

- **Volunteer CRM System (MySQL):** Created a lightweight database for volunteer tracking and donor management.
- **GIS Integration:** Applied remote sensing tools to map environmental degradation and conservation opportunities.

SKILLS

- **Software & Tools:** Python, Git, HTML/CSS, JavaScript(basic), Stata, Tableau, Excel

- **Data & Analysis:** Satellite Image Interpretation, Data Visualization, API Integration

- **Engineering:** Reservoir Analysis, Drilling Data Logging, Geothermal Well Monitoring

- **Soft Skills:** Project Management, Team Collaboration, Stakeholder Engagement

- **Languages:** English (Fluent), Swahili (Fluent), Spanish (Basic)

PROFESSIONAL DEVELOPMENT

- Certificate in Energy Policy and Sustainability | Online Course, Alison | 2023

- Workshop on African Energy Policy Frameworks | African Energy Week (Virtual) | 2023

REFERENCES

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