OTIENO DAVE EMERY

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SUMMARY

Motivated Electrical and Electronics Engineering major with strong foundations in data engineering, analytics, and automation. Experienced in Python, SQL, and Power BI for building and analyzing data-driven solutions. Passionate about applying data to support impactful organizational decisions and continuous learning in Microsoft BI tools.

EXPERIENCE

Teaching Assistant(Voluntary position) – Data Analysis with Python
AI Community Africa · (Datacamp collaboration) · October 2024 to present
· Assist students in mastering Python libraries including NumPy, Pandas, and Matplotlib for data analysis
· Guide learners through practical data manipulation, visualization, and statistical analysis exercises
· Provide one-on-one mentoring
· Review and provide detailed feedback on coding assignments and projects
· Create supplementary learning materials and code examples to reinforce key concepts
· Facilitate lab sessions and coding workshops to enhance hands-on learning experience
· Collaborate with course instructors to improve curriculum and learning outcomes

Teaching Instructor(Part-Time) – Python programming
WatotoNaCodi · January 2025 to present
· Teach fundamental and intermediate Python programming concepts to children and beginner learners exercises.
· Guide learners through creative projects to build problem-solving and logical thinking skills.
· Provide one-on-one mentorship to support each student's pace and understanding.
· Review coding assignments and offer constructive feedback to encourage improvement.
· Develop engaging learning materials and Python examples to reinforce classroom lessons.
· Collaborate with other instructors to create a supportive and fun learning environment for young coder

Events Support Assistant (Part-Time)
IDP Education – 2025
· Represented IDP during expos, supported student queries and logistics
· Supported educational fairs and IELTS events with professionalism
· Strengthened interpersonal and customer service skills

Data Collector, IRED program
Moi University December 2021 – December 2021, Eldoret
· Conducted extensive data collection and analysis for the Integrated Renewable Energy Development (IRED) program.
· Gathered and processed data on various renewable energy sources including solar, wind, and bioenergy.
· Collaborated with a multidisciplinary team to design and implement data collection methodologies.
· Ensured accuracy and reliability of data through rigorous validation and verification processes.
· Analyzed data to identify trends and patterns, contributing to comprehensive reports and presentations.
· Assisted in the development of data-driven recommendations for renewable energy initiatives and policies.
· Utilized various tools and technologies for data collection, management, and analysis.

EDUCATION

Bachelor's Degree in Electrical and Electronics Engineering

Moi University · Eldoret

CERTIFICATIONS
Data Analyst Certificate – DataCamp – DataCamp
Skills: Demonstrated proficiency in: Analytic Fundamentals, Data Management, Exploratory Analysis, Visualization and Reporting

Data Analyst Associate Certificate – DataCamp
Skills: Advanced Data Management, Statistical Analysis, Exploratory Data Analysis, Data Visualization, Entry-Level Professional Competency

Career Essentials in Data Analysis by Microsoft and LinkedIn
Skills: Business Analytics, Data Visualization Techniques, Data-Driven Decision Making, Microsoft Data Tools

Python Data Associate – Datacamp
Python Programming, Data Manipulation, Pandas, NumPy, Data Visualization, Statistical Analysis, Data Cleaning

SQL Associate Certificate– Datacamp
 Skills: SQL, Data Management, PostgreSQL, Database Querying, Exploratory Data Analysis

AI Career Essentials – ALX Africa
 Skills: AI-Augmented Professional Skills, Artificial Intelligence in Business, Digital Transformation

Power BI Fundamentals (In Progress) – DataCamp
Currently learning data visualization, dashboard design, and reporting using Power BI to strengthen business intelligence skills.

Postman API Fundamentals Student Expert
 · Validated expertise in API testing and development, including creating, testing, and documenting APIs, ensuring robust and reliable API performance.

AI Fundamentals - IBM Skills Build (2024)
 Skills: Machine Learning, Neural Networks, Data Analysis, AI Applications

International Computer Drivers License (ICDL) - KCA University
 Skills: Word Processing, Spreadsheets, Presentations, Digital Communication

Technical Writing Boot Camp Certificate of Participation
Lux Tech Academy
 · Enhanced technical communication skills and proficiency through intensive participation in a Technical Writing Bootcamp, focusing on effective documentation practices and clear communication strategies

LEADERSHIP & PROJECTS

Learning tracks lead
Moi University · GDSC MOI UNIVERSITY · September 2023 –August 2024

· Organized and facilitated workshops and training sessions on various technology topics including web development, mobile app development, and cloud computing.
· Coordinated with industry professionals and guest speakers to provide insights and mentorship to students.
· Developed and maintained a structured curriculum for learning tracks, ensuring comprehensive coverage of key skills and technologies.
· Managed a team of volunteers to assist in the planning and execution of events and activities.
· Monitored the progress of participants, providing support and resources to help them achieve their learning goals.
· Fostered a collaborative and inclusive community for developers, encouraging peer learning and networking opportunities.
· Organized coding challenges and hackathons to engage the community and promote practical application of skills.

Campus lead
Moi University · LUX ACADEMY · September 2023 - August 2024

· Organized and facilitated four major events per semester, enhancing student engagement and participation by 30%.
· Partnered with industry professionals to deliver guest lectures and training sessions, providing valuable insights to over 150 students.
· Developed and implemented a feedback system to assess workshop effectiveness, achieving a 95% satisfaction rate from attendees.
· Led and coordinated campus events and workshops focused on emerging technologies and technical skills development in collaboration with the GDSC Moi University lead, attracting over 200 participants.

SKILLS

· Data Analysis: Python (Pandas, NumPy, Matplotlib), SQL (PostgreSQL, SQL Server), Power BI, Microsoft Fabric (familiar), Azure (basic)

· Business & Reporting: Microsoft Excel, Technical Writing

· Software & Tools: Flutter (Dart), Postman, ICDL Suite

· Soft Skills: Public Speaking, Mentorship, Team Leadership

· Engineering: Electrical systems, renewable energy basics

· Python Programming