

MARGARET ODERO

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PROFESSIONAL SUMMARY

Data analyst with a strong background in power systems and a demonstrated track record of extracting valuable key insights from large volumes of energy data. Has pioneered innovative analyses to provide stakeholders including electricity regulators, utilities, researchers, and DFIs with enhanced visibility into electricity grids. Proficient in data visualization tools such as Plotly and Grafana for creating visually appealing representations of grid metrics, facilitating intuitive data interpretation. A published author of technical white papers, sharing expertise on ML algorithms and cutting-edge technologies within the data and power systems fields. Seeking dynamic opportunities to enhance data analytics processes and revolutionize power systems operations for stakeholders across the electricity landscape.

EXPERIENCE

nLine Inc, Berkeley, CA – USA(remote) *[Jan 2021 – Present]*

Data Analyst

- Extracting valuable key performance indicators from large volumes of power quality and reliability time series data, enabling stakeholders such as electricity regulators, utilities, and researchers to make informed, data-driven decisions.
- Pioneering the development of innovative analyses, providing customers with enhanced visibility into grid performance and empowering them to gain valuable insights from power quality data, ultimately supporting strategic decision-making.
- Leveraging Plotly and Grafana data visualization tools to create visually appealing and informative representations of grid performance metrics, including voltages, frequency, SAIDI, and SAIFI, facilitating quick and intuitive data interpretation.
- Developing Python libraries to streamline the data pipeline for voltage, frequency, sensor performance, and deployment metrics, simplifying access to power outage key performance indicator (KPI) data through API calls.
- Authoring technical white papers detailing algorithms and cutting-edge technologies utilized within the data analysis pipeline, sharing knowledge and insights with industry professionals, and contributing to the advancement of the field.

Carnegie Mellon University, Kigali – Rwanda *[Sep 2020 – May 2021]*

Graduate Teaching Assistant – Wireless Networks & Fundamentals of Telecommunications and Computer Networks

- Prepared class content, created and graded course assessments, and facilitated recitations.

nLine Inc, Berkeley, CA – USA(remote) *[May 2020 – Dec 2020]*

Data Analysis Intern

- Scraped map tiles from Google Maps to obtain comprehensive data sets of building geolocations in selected districts of Accra, Ghana.
- Built initial ML models in Python for predicting the number of electricity meters affected by power outages based on the building data set.

Western Reserve Group – Applied Methods Research Experience (AMRE), Wooster, OH – USA *[May 2018 – Jul 2018]*

Data Analysis Intern

- Used statistical methods, Python, and R programming languages to determine the specific customer segments that were most affected by a premium rate revision, and analyze the profitability of customer segments, providing information for decision-making on the next premium-rate revision.

InfoNET Africa Ltd, Nairobi – Kenya *[Jun 2017 – Aug 2017]*

Research and Data Analysis Intern

- Performed content mining for InfoNET and analyzed data to realize the trends in government budgets. · Analyzed Kenya's national and county budgets and identified loopholes in the government's use of public funds.

SKILLS

- Data Visualization & Analysis: Python (Pandas, NumPy, Geopandas, Seaborn, Plotly, Matplotlib, Scipy, Sci-kit learn), MATLAB, SQL
- Scripting: Bash/Linux, Python
- Deployment & CI/CD: Docker, Travis, CircleCI, GitHub
- Big Data: Pyspark, DataBricks

EDUCATION

Carnegie Mellon University, Kigali – Rwanda

Msc. Electrical and Computer Engineering *[Jul 2019 – Dec 2020]*

Concentrations: Data Science, Network Technologies

Ashesi University Berekuso, Eastern Region – Ghana

Bsc. Electrical and Electronics Engineering (Academic Honors – Magna Cum Laude) *[Sep 2015 – Jun 2019]*