

CALVIN DURR

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SUMMARY

Energy professional with a focus on optimising systems and solving complex problems. I build Python applications for forecasting, optimisation, and risk management, with a track record of streamlining workflows and improving operational efficiency. I like working in fast-paced teams and finding smart, sustainable solutions to hard problems.

WORK EXPERIENCE

So Energy, Manchester: Senior Demand Forecasting Analyst

Oct 2024 – Current (8m)

- Led the migration of forecasting models from Excel and isolated Python scripts to GCP-based CI/CD pipelines, reducing processing time by 57% while also improving reliability.
- Built accuracy dashboards in Python and Dash, enhancing visibility into errors and imbalance metrics, enabling faster error identification and model adjustments.
- Developed wind power forecasting models with physics-based layers, including power curves and custom maintenance adjustments, reducing day-ahead imbalance.

NOA Group, Cape Town: Energy Analyst

May 2023 – Sept 2024 (1y 5m)

- Led a cross-functional team of five over a six-month period to develop NOA's first trading algorithm using Python, NumPy, and linear optimisation, increasing expected margins by 20% across an 800MW portfolio.
- Conducted initial due diligence on a 15GW greenfield pipeline, presenting investment cases to the senior leadership team, resulting in the acquisition of a 94.5MW wind farm and 660MW of solar.

ACES Africa, Somerset West: Head of Asset Management

Nov 2022 - April 2023 (6m)

- Started the asset management division, growing the portfolio to 30 projects across South Africa, totaling 15MW of embedded solar.
- Oversaw operations, contract management, and budgeting, turning a former cost center into a profitable business.
- Built full-stack digital twins of solar assets, automating real-time monitoring and reducing performance liquidated damages by £50,000 annually while cutting asset management fees by 40%.

ACES Africa, Somerset West: Design Engineer

Aug 2021 - Nov 2022 (1y 4m)

- Designed and commissioned over 20 embedded solar and battery systems for commercial and industrial clients.
- Built an Azure-hosted app to automate the sales process, increasing business development efficiency by 50%.

SilverSky, Somerset West: Software Engineer Intern

Jan 2021 - July 2021 (7m)

- Optimised SQL queries and wrote unit tests in C#.

EDUCATION

BEng, Mechatronic Engineering

Stellenbosch University

SKILLS AND LANGUAGES

Programming languages & Software Packages

Python, NumPy, Scikit-Learn, Google Cloud Platform, Azure, Excel, SQL

Skills

Portfolio Risk Modelling, Energy Forecasting, Software Development

Languages

English (Native), Dutch, Afrikaans