

Dr. Joseph Njeri

Data Engineer ■ AI Engineer ■ Software Developer

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Portfolio: karianjahi.github.io/personal-portfolio

Profile

Data Engineer / AI Engineer and full-stack software developer with 6+ years of experience building data-driven products and production-grade services. Strong Python background across data pipelines (ETL/ELT), API integration, and backend development (Flask/Django, REST), with applied machine learning experience (NLP, time series, clustering). Known for turning exploratory work into maintainable, testable systems through clean architecture, reproducible workflows, documentation, and collaborative agile delivery.

Technical Skills

Programming	Python, JavaScript (ES6+), SQL, Bash
Data Engineering	ETL/ELT pipelines, API ingestion, data quality checks, metadata/documentation
Backend & APIs	Flask, Django, Django REST Framework, RESTful services
AI / ML	Classification, regression, clustering, NLP, time series; model evaluation and deployment readiness
Databases	PostgreSQL, MongoDB
Cloud & Containers	Docker, containerized deployments, cloud-based environments
DevOps / MLOps Concepts	Reproducible workflows, CI/CD awareness, service ownership, monitoring-minded delivery
Frontend	HTML5, CSS3, Responsive Design, Flexbox, Grid, DOM, Accessibility (ARIA)
Tools	Git, Linux / Unix
Methods	Agile / Scrum collaboration, code reviews, stakeholder communication

Professional Experience

Data Science Coach (Mid-Level) — Spiced / Neufische GmbH 11/2021 – 07/2025 | Berlin, Germany

- Provided technical guidance to multiple parallel project teams delivering AI and data products.
- Supported the transition from exploratory notebooks to structured, maintainable Python codebases (modular design, testing mindset, documentation).
- Helped teams build backend services with Flask/Django and REST APIs, including containerized deployments with Docker.
- Acted as technical reviewer in Scrum settings, contributing to architecture, maintainability, and reliability discussions.
- Promoted reproducible ML workflows and CI/CD awareness to improve handover into operational environments.

Data Scientist — Engineering Data Intelligence, EDI GmbH

07/2019 – 06/2021 | Karlsruhe, Germany

- Designed and implemented ETL pipelines integrating data from APIs, relational databases, and

operational systems.

- Built Python services and data-driven applications using Django and REST interfaces; collaborated closely with stakeholders on requirements.
- Applied statistical and machine learning methods (e.g., clustering) to support root-cause analysis and operational decision support.
- Ensured data consistency and quality, and contributed to technical documentation for maintainability and collaboration.

Research Associate — Karlsruhe Institute of Technology (KIT) 05/2016 – 06/2019 | Karlsruhe, Germany

- Developed reusable software components and data processing workflows for data-intensive scientific applications.
- Conducted time-series analysis and extreme-event modeling; managed large datasets with reproducibility and data integrity in mind.
- Collaborated in interdisciplinary teams and communicated results clearly through reports and presentations.

Lecturer — Meteorology & Environmental Sciences, South Eastern Kenya University 01/2013 – 06/2015 | Kenya

- Taught applied atmospheric sciences and supervised student projects involving data analysis and modeling.
- Supported students in analytical reasoning, foundational programming, and scientific reporting.

Professional Development

Independent Study — Frontend & Full-Stack Development 08/2025 – Present | Karlsruhe, Germany

- Deepening frontend skills (HTML, CSS, JavaScript) to complement backend and data engineering experience.
- Building end-to-end applications that connect user interfaces with Python services and databases.

Education

Data Science & Machine Learning Bootcamp — Spiced Academy GmbH 06/2021 – 09/2021 | Berlin, Germany

Focused training in machine learning, deep learning, NLP, data engineering, Flask-based backend development, Docker, and PostgreSQL.

Doctor of Natural Sciences (Dr. rer. nat.) — Meteorology, Karlsruhe Institute of Technology (KIT) 10/2015 – 05/2019 | Karlsruhe, Germany

Dissertation: *Synoptic-scale dynamics and modeling of extreme precipitation events in Kenya*.

Master of Science (M.Sc.) — Meteorology, University of Nairobi 10/2010 – 08/2012 | Nairobi, Kenya

Master's thesis: *Convection indices for rainfall predictability over East Africa*.

Bachelor of Science (B.Sc.) — Meteorology, University of Nairobi 10/2005 – 09/2009 | Nairobi, Kenya

Bachelor's thesis: *Changes in rainfall patterns around major dam regions in Kenya*.

Languages

English	Fluent (C2)
German	Professional working proficiency (B1)
Swahili	Native / Fluent (C2)

Additional Information

GitHub	github.com/karianjahi/selected-github-projects
Portfolio	karianjahi.github.io/personal-portfolio
Driver's License	Class B

General Interests

Premier League football, continuous learning in coding and software development, driving, and maintaining a positive sense of humor.