

# 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

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

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**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

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**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

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

### Additional Information

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<b>GitHub</b>	<a href="https://github.com/karianjahi/selected-github-projects">github.com/karianjahi/selected-github-projects</a>
<b>Portfolio</b>	<a href="https://karianjahi.github.io/personal-portfolio">karianjahi.github.io/personal-portfolio</a>
<b>Driver's License</b>	Class B

### General Interests

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