Curriculum Vitae

Personal Information

Name	Dr. Joseph Njeri
Role	**Data Engineer • AI Engineer • Software Developer**
Address	Elsa-Brändström-Str. 15a, 76228 Karlsruhe, Germany
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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-ready services. Strong Python background across ETL/ELT pipelines, API integration, and backend development (Flask/Django, REST), complemented by applied machine learning expertise (NLP, time series, clustering). Focused on transforming exploratory prototypes into maintainable, testable systems through clean architecture, reproducible workflows, documentation, and collaborative agile delivery.

Professional Experience

11/2021 – 07/2025

Data Science Coach (Mid-Level), Spiced / neuefische GmbH, Berlin, Germany
- Provided technical guidance to multiple project teams delivering AI and data products.
- Transitioned exploratory notebooks into structured, maintainable Python codebases.
- Built backend services with Flask/Django and REST APIs including Docker-based deployment.
- Conducted technical reviews in Scrum environments focusing on architecture and reliability.
- Promoted reproducible ML workflows and CI/CD awareness.

07/2019 – 06/2021

Data Scientist — Engineering Data Intelligence, EDI GmbH, Karlsruhe, Germany
- Designed and implemented ETL pipelines integrating APIs and relational databases.
- Developed Python-based services and applications using Django and REST.
- Applied statistical and machine learning methods for analytical decision support.
- Ensured data quality and contributed to documentation and maintainability.

05/2016 – 06/2019

Research Associate, Karlsruhe Institute of Technology (KIT), Germany
- Developed reusable software components and data-processing workflows.
- Conducted time-series analysis and extreme-event modeling with a reproducibility focus.
- Communicated research findings through reports and presentations.

01/2013 – 06/2015

Lecturer — Meteorology & Environmental Sciences, South Eastern Kenya University, Kenya
- Taught applied atmospheric sciences and supervised data-driven student projects.
- Supported analytical reasoning and foundational programming skills.

Education

06/2021 – 09/2021	**Data Science & Machine Learning Bootcamp**, Spiced Academy GmbH, Berlin, Germany
10/2015 – 05/2019	**Doctor of Natural Sciences (Dr. rer. nat.) — Meteorology**, Karlsruhe Institute of Technology (KIT), Germany Dissertation: *Synoptic-scale dynamics and modeling of extreme precipitation events in Kenya*
10/2010 – 08/2012	**Master of Science (M.Sc.) — Meteorology**, University of Nairobi, Kenya
10/2005 – 09/2009	**Bachelor of Science (B.Sc.) — Meteorology**, University of Nairobi, Kenya

Technical Skills

- Programming: Python, JavaScript (ES6+), SQL, Bash
- Data Engineering: ETL/ELT, API ingestion, data quality checks
- Backend & APIs: Flask, Django, Django REST Framework
- AI / ML: Classification, regression, clustering, NLP, time series
- Databases: PostgreSQL, MongoDB
- DevOps / MLOps: Reproducible workflows, CI/CD awareness
- Frontend: HTML5, CSS3, Responsive Design, Accessibility (ARIA)
- Tools: Git, Linux, Docker

Languages & Additional Information

- Languages: English (C2), German (B1), Swahili (C2)
- Driver's License: Class B

Karlsruhe, **Dr. Joseph Njeri**