RANJAN VENKATESH

DATA ENGINEER

@ranjan.venkatesh@web.de
Hannover, Lower Saxony, DE

I have seven years of experience in software, the last four in data engineering. At Smartsteuer I build and run the data platform on AWS: pipelines, the lakehouse, orchestration and infrastructure as code. I also built the first version of our RAG application with LLMs. I work closely with the product and analytics teams, and I care about pipelines that are easy to run and maintain.

SKILLS

PYTHON
Expert
PySpark, PyFlink, Pandas

AWS
Expert
Glue, Lambda, Kinesis, S3, CDK

DAGSTER
Expert
Orchestration, Pipelines

APACHE SPARK
Advanced
PySpark, Distributed Computing

APACHE FLINK
Advanced
PyFlink, Streaming

APACHE ICEBERG
Advanced
Lakehouse, Table Format

SQL
Expert
PostgreSQL, MariaDB

KOTLIN
Advanced
Spring, Spring Batch

JAVA
Advanced
Spring, Java EE

DOCKER & KUBERNETES
Advanced
Containers, Orchestration

CERTIFICATIONS

AWS Certified Solutions Architect - Associate
April 2024
Amazon Web Services

EDUCATION

Otto-von-Guericke Universität Magdeburg
M.S. in Data and Knowledge Engineering
Data and Knowledge Engineering
October 2016 - December 2019

- Thesis: Accelerating Quality Validation of ETL Processes through Automation
- Data Science, Information Retrieval, Data Mining, Business Forecasting

Visvesvaraya Technological University
B.E. in Information Science & Engineering
Information Science & Engineering
August 2010 - June 2014

- Nine awards at national and state-level technical competitions and hackathons

EXPERIENCE

Smartsteuer GmbH — Hannover, Germany
DATA ENGINEER
January 2022 - Present

I am responsible for the cloud data platform. I started with pipelines and now own the lakehouse architecture and an AI application.

- Built data pipelines and a lakehouse on AWS with Apache Iceberg, using Dagster for orchestration
- Built a RAG application with LLMs that runs in production, with its own retrieval layer and prompts, integrated into the core product
- Wrote the infrastructure as code with AWS CDK and handle the deployments myself
- Built pipelines that follow privacy and compliance rules, together with the legal and product teams
- Built BI dashboards with well-defined KPIs for business monitoring

Nexus Marabu GmbH — Magdeburg, Germany
BACKEND DEVELOPER
October 2020 - December 2021

Backend development for standalone and web-based medical software. Worked on healthcare integrations following IHE standards.

- Designed, implemented and maintained backend services for standalone and web-based applications
- Contributed to healthcare workflow integrations following IHE standards

Infosys Technologies Ltd. — Bangalore, India
SYSTEMS ENGINEER
June 2014 - July 2016

Migrated legacy Java systems to a more maintainable architecture.

- Migrated legacy Java systems and built a Spring 4 proof-of-concept for automated testing and documentation

VOLUNTEER

Accenture GmbH
November 2018 - April 2019

Automated QA processes for a Big Data project at a major European financial institution.

- Automated QA processes for a Big Data project at a major European financial institution
- Built reporting dashboards and integrated QA tooling with Jenkins CI

LANGUAGES

English
Professional

German
Professional

Hindi
Native

INTERESTS

- ☆ **Cricket**
- ☆ **Home Lab & Smart Home**
- ☆ **History**
- ☆ **Cooking**

Tarakos GmbH

October 2019 - February 2020

Feature development for supply chain management software.

- Feature development for supply chain management software
- Designed and built an internal merchandise website