

# Bindumadhav Deshpande

Senior Data Engineer at HEMA

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## Profile

Senior Data Engineer with 7+ years building and running data platforms on AWS across retail, logistics, energy and automotive. Pairs hands-on engineering in Python, SQL and Databricks with platform ownership: platform design, cloud migrations, lakehouse adoption and data governance.

## Experience



### Senior Data Engineer

09/2026 – Present

HEMA · Amsterdam, Netherlands

- Manage HEMA's data platform, owning its reliability, day-to-day operations and ongoing evolution.
- Design data solutions on AWS, from ingestion through to consumption.
- Run and govern Amazon SageMaker Unified Studio (SMUS) environments for data and analytics teams.
- Build and maintain data pipelines on Databricks and AWS using Python and SQL.



### Senior Technical Cloud Engineer

04/2025 – 08/2026

PostNL · The Hague, Netherlands

- Moved data processing from ECS containers to an end-to-end Dagster data platform, increasing processing efficiency by 20%.
- Migrated the existing data warehouse to an Apache Iceberg-based warehouse, simplifying use and maintenance.



### Data Engineer (AWS)

03/2023 – 03/2025

SURU (part of GROHE) · Amsterdam, Netherlands

- Built a data lake for GROHE smart water meters, turning low-flow readings into data for micro-leak detection with data scientists.
- Streamed PostgreSQL changes (CDC) through Kinesis Data Firehose into Apache Iceberg tables; processed data with SQS and EMR Serverless.
- Modelled data with dbt and gave data scientists fast, self-service access through Athena.
- Designed and built an end-to-end customer communication system covering SMS, email and letters.

## Results

60%

faster cloud data migration

50%

more efficient device updates

40%

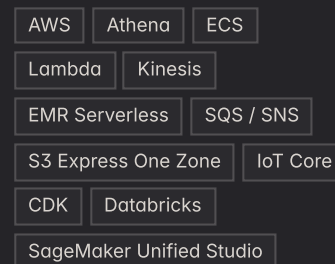
faster data processing

30%

less system downtime

## Skills

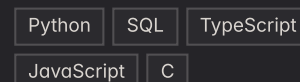
### Cloud & platforms



### Data engineering



### Programming



### DevOps & tooling



## Experience, continued



### IoT & Cloud Engineer

09/2022 – 12/2022

**Quatt** · Amsterdam, Netherlands

- Implemented device management and provisioning with AWS IoT, streamlining the device lifecycle.
- Designed AWS data infrastructure to collect data from field-deployed machines and deliver OTA updates.
- Worked across electronics, app development and AI teams to ensure seamless interface integration.



### Development Engineer (R&D)

02/2020 – 08/2022

**Scania Group** · Södertälje, Sweden

- Processed IoT messages from Scania trucks with an event-driven AWS stack: Lambda, Kinesis, SQS and SNS.
- Led the migration of historical vehicle data from on-premises systems to AWS, making it far easier to access and manage.
- Implemented a disaster recovery system for the migrated data, minimising downtime and data loss.
- Architected a service together with a remote team in Romania, delivering across borders and cultures.



### Associate IT Consultant

08/2015 – 09/2016

**ITC Infotech** · Bangalore, India

- Monitored and troubleshot remote client infrastructure, and administered Active Directory (onboarding, permissions, accounts).
- Used Altiris to maintain client infrastructure for ITC Infotech India and Castleton Commodities International.

## Selected projects

### Real-time anomaly detection in encrypted data using AI

**Scania, Sweden**

- Investigated and documented 10 conceptual architectures, shaping the development strategy.
- Sped up diagnostics-tool development by 15% using cloud-technology insights from 50 projects.
- Deployed the model in real time into the Scania ecosystem.

### ECU interaction over a CAN network

**TU Chemnitz, Germany**

- Interconnected 5 ECUs over CAN for stability, lighting, door-lock and engine control, and optimised the C algorithms for a 30% efficiency gain.

## Education



### MSc Automotive Software Engineering

TU Chemnitz, Germany

2016 – 2020



### Master of Computer Applications

NMAM Institute of Technology, Nitte

2012 – 2015

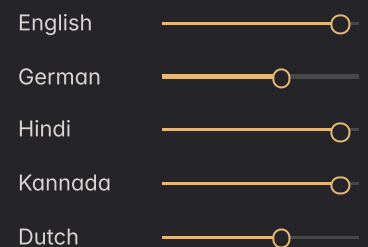


### Bachelor of Computer Science

JSS College, Dharwad

2009 – 2012

## Languages



Advanced · German &amp; Dutch intermediate

## More skills

### Docs & automotive

Confluence

MkDocs

TechDocs

CAN

AUTOSAR