

MAHENDRA S H

Data Analyst & Software Engineer | SQL, Power BI & Python Ecosystems

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PROFESSIONAL SUMMARY

- Data Analyst & Software Engineer with **3+ years of combined professional and enterprise experience** in data analysis, business intelligence, and full-stack application development.
- Skilled in extracting, transforming, and validating large operational datasets (**50K+ daily records**), developing KPI-driven **Power BI** dashboards, and optimizing **PostgreSQL** performance.
- Strong technical stack spanning **SQL, Python (Pandas, NumPy), Power BI (DAX, Power Query), Java 21, Spring Boot, React**, and **AWS** cloud services.

TECHNICAL SKILLS

Data Analytics & BI:	Power BI, DAX, Power Query, Advanced Excel, KPI Development, EDA, Root Cause Analysis, Business Reporting
Languages & Specs:	SQL, Python, Java 21, JavaScript (ES6+), TypeScript, HTML5, CSS3
Databases:	PostgreSQL, MySQL, SQL Query Optimization, Complex Joins, CTEs, Window Functions, Aggregations
Backend & Cloud:	Django, Flask, FastAPI, Spring Boot, Node.js, Express.js, Microservices, REST APIs, Apache Kafka, AWS (EC2, S3, SNS, SQS), Docker, CI/CD
Frontend & Python:	React.js, Next.js, Tailwind CSS, Pandas, NumPy, Matplotlib, Jupyter Notebook

WORK EXPERIENCE

Infosys — Specialist Programmer / Data Analyst & Software Developer | Jul 2024 – Jun 2026 | Hyderabad, India

- Analyzed operational datasets containing **50K+ active bookings daily** for **CMA CGM**, identifying trends, process bottlenecks, and operational patterns using complex **SQL (CTEs, joins, window functions)** in PostgreSQL.
- Developed interactive **Power BI dashboards and reports** for monitoring operational KPIs, booking readiness, processing volumes, and exceptions, improving decision-making efficiency.
- Investigated data inconsistencies and performed **Root Cause Analysis (RCA)** to improve data quality and reporting reliability.
- Optimized **PostgreSQL** queries and backend data-access operations, contributing to a **20% improvement in API response times**.

Independent Software Development — Freelance Full-Stack Developer | Jun 2023 – Jun 2024 | Mysore, India

- Designed database schemas and developed complex **SQL queries** for application reporting, filtering, aggregation, and analytics across **6+ production applications**.
- Built data-driven **SaaS applications** with user activity tracking, business metrics, and analytics dashboards using **React, Node.js**, and **PostgreSQL**.

Merav Infotech — Software Engineering Intern | Feb 2024 – May 2024 | Mysore, India

- Developed reusable React.js components and integrated RESTful APIs for web applications, improving initial load times by **15%** via lazy loading.

SELECTED PROJECTS

Cargo Readiness — CMA CGM — SQL, PostgreSQL, Power BI, Java 21, Spring Boot, Kafka

- Developed KPI reporting and analytical views for operational performance; automated verification of **50K+ daily bookings** using Spring Batch and Camunda BPM.

SpendOptima — Personal Finance Analytics Dashboard — React, TypeScript, Next.js, Recharts

- Built an interactive personal finance dashboard featuring KPI cards, spending breakdowns, budget analytics, and trend visualizations.
- Implemented interactive charts for analyzing income, expenses, categories, and spending behavior to provide actionable financial insights.

SaaS Form Builder & Analytics Platform — PostgreSQL, Express, React, Node.js, AWS

- Built a no-code SaaS form builder with integrated analytics tracking for form usage, submissions, and user activity.

- Developed secure REST APIs and PostgreSQL data models, deploying embeddable scripts used across **20+ client websites**.

E-Commerce REST API Platform — Python, Django, Flask, FastAPI, PostgreSQL, Node.js, Express.js

- Architected and developed a scalable e-commerce REST API with **Django REST Framework**, featuring product catalog, cart, order management, and user authentication.
- Built a lightweight microservice layer using **Flask** for payment webhooks and **FastAPI** async endpoints achieving **sub-50ms** response times.
- Implemented a **Node.js/Express.js** API gateway for routing, rate limiting, and request aggregation across backend services.

CERTIFICATIONS

- **Data Analyst Associate** — DataCamp (*Credential ID: DAA0011831242181 | Issued Sep 2026*)
- **PostgreSQL & Advanced SQL Specialization** — DataCamp (*Joining Data & Manipulating Data in PostgreSQL | Issued Sep 2026*)

EDUCATION

National Institute of Engineering (NIE) — Bachelor of Technology (B.Tech) in Computer Science & Engineering | Graduated May 2024 | Mysore, India

CGPA: 7.3 / 10 | Relevant Coursework: Data Structures & Algorithms, Database Systems, DBMS, Software Engineering, Object-Oriented Design