

Navneeth Premanand

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PROFESSIONAL SUMMARY

Junior Data Engineer with hands-on experience in database design, data ingestion, and cloud infrastructure (AWS, Azure). Proven ability to design database schemas, implement data quality validation, and build backend APIs for data access. Strong SQL proficiency with expertise in complex queries, stored procedures, and views. Background in Python scripting for data automation, ETL workflows, and machine learning. Experience managing data pipelines and optimizing database performance for operational analytics.

TECHNICAL SKILLS

- Databases & SQL:** MySQL, MongoDB, Database Migrations, Data Modeling (Star Schema, Snowflake Schema, Normalization)
- Python for Data:** Pandas, NumPy, Requests (API Integration), SQLAlchemy (ORM), PyMongo, Data Transformation, Scripting & Automation
- Cloud Platforms:** AWS (EC2, S3, Lambda, Route 53, IAM), Azure, Cloud Infrastructure Management, Deployment Automation
- ETL & Data Pipelines:** Data Ingestion, Data Quality Validation, Workflow Automation, Scheduled Jobs, Version Control (Git), CI/CD Pipelines
- Big Data & Analytics:** Hadoop, Spark, Data Warehousing Concepts, Large Dataset Management, Machine Learning (TensorFlow, Keras, Scikit-learn)
- Development:** REST API Development, JavaScript, React, Backend Development (Node.js), Data Visualization (Tableau, Power BI, Chart.js)
- Tools & Methods:** Agile Methodologies, Requirements Gathering, Technical Documentation, Process Automation

PROFESSIONAL EXPERIENCE

Software Developer

Flo Mobility

May 2025 - Present

Bengaluru

- Managed data ingestion pipeline for 50+ autonomous robots, implementing data quality checks and validation logic to ensure data integrity for operational analytics and real-time monitoring
- Optimized MongoDB database performance through indexing strategies and aggregation pipeline refinements, improving query response times for analytics dashboard serving multiple stakeholders
- Developed and maintained analytics dashboard with 10+ interactive visualizations using React and Chart.js, querying MongoDB to track operational KPIs, downtime patterns, and fleet productivity metrics
- Maintained cloud infrastructure on AWS (EC2, S3, Lambda) and implemented automated deployment workflows for web application and React Native mobile app supporting fleet operations

Software Developer - Freelance

ACZ Global Pvt Ltd

Sep 2021 - Jul 2022

Bengaluru

- Designed and implemented MySQL database schema for ERP/HRMS system serving 40+ users, creating normalized data models with proper relationships, constraints, and indexing strategies
- Developed data migration scripts to transition from paper-based workflows to digital system, ensuring data integrity and consistency throughout the ETL process
- Built RESTful backend APIs using Node.js for data access layer, implementing CRUD operations, complex SQL queries with joins and subqueries, and data validation logic
- Created stored procedures, views, and triggers in MySQL to automate data processes and maintain referential integrity across HRMS modules

- Deployed production system on AWS infrastructure (EC2, Route53, IAM) with continuous monitoring and performance optimization

Software Developer - Freelance*Rynova Trade LLC*

Oct 2024 - Apr 2025

Dubai, UAE

- Gathered requirements and designed system architecture for corporate website, implementing data flow from backend APIs to frontend React-TypeScript application
- Configured Google Analytics data collection and exported analytics data for processing, creating performance reports to track user behavior and conversion metrics
- Deployed production solution on AWS (EC2, S3, Route 53, SSL) with automated CI/CD pipeline and infrastructure monitoring

AI Engineering Intern*Open Weaver*

Jun 2023

Bengaluru

- Conducted exploratory data analysis (EDA) and data preprocessing on large medical imaging datasets, implementing data transformation pipelines for machine learning workflows
- Developed Python scripts for data extraction, feature engineering, and dataset preparation using Pandas, NumPy, and image processing libraries
- Implemented machine learning models using TensorFlow and Scikit-learn, evaluating model performance and creating analytical reports with Python-based visualizations

Business Process Automation Intern*ACZ Global Pvt Ltd*

Feb 2024 - Apr 2024

Bengaluru

- Analyzed business workflows and documented data flow requirements for predictive analytics initiatives, creating System Requirement Specifications (SRS) for data pipeline development
- Developed data flow diagrams and technical documentation using Lucidchart and Visio to map data movement and transformation processes

EDUCATION

Master of Science in Data Science*Christ University*

2022 - 2024

Bengaluru

Bachelor of Science in Computer Science, Mathematics and Statistics*Christ University*

2018 - 2021

Bengaluru

TECHNICAL PROJECTS

- **Stellar Image Classification Pipeline:** Published IEEE paper on CNN performance evaluation. Managed large-scale image dataset, implemented data preprocessing workflows, and optimized data storage for efficient model training across multiple architectures (VGG16, ResNet, Parallel CNN)
- **Python Data Automation:** Developed personal projects involving data extraction from APIs using Requests library, data transformation with Pandas/NumPy, and automated data processing workflows with scheduled jobs

CERTIFICATIONS

- Google Data Analytics Professional Certificate - Coursera
- Data Science 101 - IBM
- Business Analysis & Process Management - Coursera