



Shubham Mallick

13+ Years Experience | Data & Application Architect | ML & Performance Engineering

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US B1/B2 Visa

Qualcomm Hackathon, Innovation Maestro, & Super-Qualstar Winner, Top 3 ML Contestant Worldwide | Apple / PwC Awardee | Microsoft / IBM Certified

EXECUTIVE SUMMARY

13+ years seasoned Engineering Leader specializing in scalable application and data platforms, ML/AI solutions, and high-performing team leadership. Delivered systems processing **50M+ records daily** with **70% latency reduction**. Expert in cloud migration, microservices architecture, and real-time analytics across Salesforce, Apple, Qualcomm, PwC ecosystems.

13+

Years Exp

50M+

Records/Day

70%

Latency ↓

12+ members

Team Led

PROFESSIONAL EXPERIENCE



Salesforce

Senior Staff Engineer, Performance Engineering, Sales AI

Jul 2022 - Present

AWS • PySpark • Kafka • Redis • Python • Go • Airflow • GenAI • LLM • Agentforce • MySQL • NoSQL • Graph Database • EKS • S3 • Lambda • Docker • Kubernetes

- Built distributed microservice based ticketing system, reducing response time by **45%**
- Contributed to distributed data pipelines achieving **70% latency reduction** with Spark/EKS/Kafka
- Worked on CI/CD automation (EKS/Terraform/Jenkins), cutting deployment time by **70%**
- Enhanced application/database performance by **20-40%** through GenAI integration and Agentforce prompt engineering
- Worked on Agentforce performance engineering evaluation and achieved **25-40%** improvement using GPT4o



Apple Inc.

Technical Lead & Module Owner

Jun 2020 - Jul 2022

Apple Cloud • AWS • Python • Django • Kafka • Redis • PySpark • Snowflake • Oracle • Docker • Kubernetes • EMR • EC2 • S3

- Led **12-member team** in Supply-Chain CPT projects, key player of GA application, awarded as key contributor
- Architected backend pipeline processing **100GB+ daily** from Oracle DW to AWS, with distributed architecture
- Redesigned high data intensive application on AWS to process **10M+ transactions/day** with 99.9% uptime
- Built Kafka queues handling **1M+ messages/hour** for near real-time data-streaming in Apple Supply-Chain ecosystem
- Migrated data-lake to AWS, reducing storage costs by **50%**
- Transformed monolith to microservices, improving scalability by **300%**



Qualcomm

Senior ML / Distributed System Engineer

Nov 2017 - May 2020

Machine Learning • NLP • Big-Data • Spark • Python • HIVE • MapR DB • Kafka • TensorFlow • Keras • Snowflake

- Developed ML models for chipset forecasting with **92% accuracy** using Algorithms like XGBoost, LSTM, NeuralNetwork etc.
- Built GAN-based models, improving image quality by **35%** captured by Camera powered by Snapdragon chipset
- Optimized CPU/RAM usage utilization by **25%** using ML algorithms, running on Snapdragon chipsets
- Built Big-Data pipelines processing **2TB+ daily** in Hadoop ecosystem using Spark / MapR DB
- Won Innovation Maestro, Super-Qualstar, and multiple Qualstars; HaQkathon Winner, presented prototype to CxO leadership



IBM

Advisory Analyst & Azure Cloud SME

Dec 2016 - Nov 2017

Azure Cloud • Azure Data Factory • Azure Service Bus • WCF • MongoDB • C#

- Led **6-member team**, Azure migration for DB and Application completed weeks early from deadline
- Migrated **500GB+ data** with 99.9% integrity/accuracy, using Azure Data Factory, Service Bus, WCF, MongoDB, C#



PwC

Senior Developer / Consultant

Oct 2014 - Dec 2016

Data Warehouse • SQL-Server / Oracle • SSIS • ETL • C# • ADO.NET • WCF • JavaScript • MongoDB • Python • jQuery • Bootstrap • HTML • CSS

- Built predictive search from **billion+ rows** in 2-5 seconds [Tuned DB highly; Used Python, Async jQuery, Bootstrap]
- Performance tuned SSIS to load **50M rows** within SLA
- Won STAR Performer & multiple client appreciation awards



Cognizant

Application Developer

Apr 2012 - Oct 2014

SQL Server • SSIS • C# • ADO.NET • JavaScript • Angular • Java

- Managed **24x7** production support for MetLife bulk data processing, and application support
- Automated processes reducing manual effort by **60%**

CORE SKILLS

Database, Big-Data & Analytics

DB Internals • DB Tuning/Optimisations • MapR • Spark • HIVE • Kafka • Snowflake • Delta Lake • Flink • NoSQL • MongoDB • Predictive Analytics

ML & AI

TensorFlow • Torch • Scikit-Learn • NLP • LLM • GenAI • Neural Networks • GAN • LSTM • Langchain • Agentforce

Cloud Platforms

Apple Cloud - Cassandra • AWS • AWS - EC2 • AWS - EMR • AWS - EKS • AWS - S3 • AWS - Lambda • Azure • Azure - Data Factory • Azure - Service Bus • Docker • Kubernetes

Programming

Python • JavaScript • Rust • Go • C# • Java

EDUCATION



M.Tech in Data Science & Engineering

BITS - Pilani, Hyderabad

With distinction



B.Tech in Computer Science & Engineering

WBUT, Kolkata

With distinction



Microsoft Certified Data-Warehouse

Professional

SQL Server (70-463)

✓ Certified

AWARDS & RECOGNITIONS

Salesforce Hackathon Winner

Hackathon Winner & Best CoP Team in AI/ML

Apple Recognition

Key Contribution in Supply-Chain Project Go-live

Qualcomm Innovation Maestro

Qualcomm OneIT Innovation Maestro Winner

Qualcomm HaQkathon Winner

HaQkathon Winner, and Prototype Presentation to CxO

Qualcomm Super-Qualstar

Winner of Super-Qualstar and multiple Qualstars

Qualcomm Top 3

Stood in Top 3 in Worldwide ML Contest

PwC STAR

Outstanding Performance, & Key Contribution in Project Success

LEADERSHIP

- Mentor:** 50+ professionals across Apple, Qualcomm, IBM, PwC
- Interviewer:** Core technical panel for lateral hiring
- Trainer:** Campus graduates on Analytics & Data Engineering
- Team Builder:** Hired & scaled teams across organizations