



Shubham Mallick

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

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US B1/B2 Visa

Qualcomm Hackathon Winner, Innovation Maestro, Super-Qualstar, Top 3 ML Contest | 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 • RDS Redshift • EKS • S3 • Lambda • Docker • Kubernetes

Re-architected high-volume AWS applications to process **10M+ transactions/day** with 99.9% uptime
Enhanced application/database performance by **50-60%** through GenAI integration and Agentforce prompt engineering
Built distributed microservices ticketing system, reducing response time by **45%**
Redesigned data pipelines achieving **70% latency reduction** with Spark/EKS/Kafka
Worked on CI/CD automation (EKS/Terraform/Jenkins), cutting deployment time by **80%**



Apple Inc.

Technical Lead & Module Owner

Jun 2020 - Jul 2022

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

Led **12-member team** in Supply-Chain CPT/MDAT projects, key player of GA application, awarded for go-live success
Architected backend pipeline processing **100GB+ daily** from Oracle DW to AWS for scalability
Built Kafka queues handling **1M+ messages/hour** for near real-time data-streaming
Migrated data-lake to AWS, reducing storage costs by **50%**
Transformed monolith to microservices, improving scalability by **300%**



Qualcomm

Senior Big-Data / ML Engineer

Nov 2017 - May 2020

ML • NLP • Hadoop • Spark • Python • HIVE • Kafka • TensorFlow • Keras • Snowflake

Developed ML models for chipset forecasting with **95% accuracy** using different ML Algorithms like XGBoost, LSTM, etc.
Built GAN-based image models, improving quality by **35%**
Optimized CPU/RAM utilization by **25%** using ML algorithms
Built Big-Data pipelines processing **2TB+ daily** in Hadoop ecosystem
Won Innovation Maestro, HaQkathon Winner, presented to CxO leadership



IBM

Team Lead & Cloud SME

Dec 2016 - Nov 2017

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

Led **6-member team** Azure migration, completed 3 weeks early
Migrated **500GB+ data** with 99.9% integrity/accuracy, using Azure Data Factory, Service Bus, WCF, MongoDB, C#



PwC

Senior Developer

Oct 2014 - Dec 2016

SQL • SSIS • ETL • C# • ADO.NET • JavaScript • MongoDB • Python • jQuery • Bootstrap • HTML • CSS

Built predictive search from **billion+ rows** in 2-5 seconds, using SQL Server, C#, JavaScript, MongoDB, Python, jQuery, Bootstrap, HTML, CSS
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

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

CORE SKILLS

Big Data & Analytics

Hadoop • Spark • HIVE • Kafka • Snowflake
Delta Lake • Flink • NoSQL • MongoDB

ML & AI

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

Cloud Platforms

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

Programming

Python • JavaScript • Rust • C# • Java
Go

EDUCATION



M.Tech in Data Science & Engineering

BITS - Pilani, Hyderabad
7.67 CGPA



B.Tech in Computer Science & Engineering

WBUT, Kolkata
7.86 CGPA



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 Success

Qualcomm Innovation Maestro

Qualcomm OneIT Innovation Maestro Winner

Qualcomm HaQkathon Winner

HaQkathon Winner, and Prototype Presentation to CxO

Qualcomm Super-Qualstar

Winner 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