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 Software / Data Engineering, Cloud Migration, Microservice based Architectures, and Real-time Analytics across Salesforce, Apple, Qualcomm, IBM, PwC ecosystems.

13+	50M+	70%	12+ members
Years Exp	Records/Day	Latency ↓	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

- Redesigned distributed microservice based ticketing system for Security Operations, reducing response time by **45%**
- Significant contribution 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 on-prem data-warehouses to AWS, reducing storage/operations 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, NuralNetwork 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
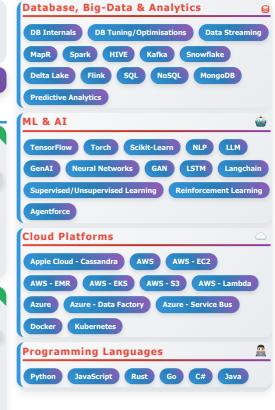- Won STAR Performer & multiple client appreciation awards

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 | Data Streaming | MapR | Spark | HIVE | Kafka | Snowflake | Delta Lake | Flink | SQL | NoSQL | MongoDB | Predictive Analytics

ML & AI 🤖
TensorFlow | Torch | Scikit-Learn | NLP | LLM | GenAI | Neural Networks | GAN | LSTM | Langchain | Supervised/Unsupervised Learning | Reinforcement Learning | 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 Languages 🧑‍💻
Python | JavaScript | Rust | Go | C# | Java

EDUCATION 🎓

M. Tech in Data Science & Engineering
BITS - Pilani, Hyderabad, India
With distinction

B. Tech in Computer Science & Engineering
WBUT, Kolkata, India
With distinction

Microsoft Certified 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