

# Milind Sali

---

Email: milindksali@gmail.com | Phone: +91 9819615261 | Location: Mumbai, India

## Research & Engineering Profile

Software engineer with 20+ years of experience designing and supporting complex computational systems across embedded software, enterprise platforms, automation frameworks, and data systems. Experienced in building reliable software for mission-critical environments including financial trading platforms and regulatory systems. Currently expanding work in Python-based data processing, numerical computing, and automation frameworks. Interested in applying advanced computing, machine learning, and data analysis techniques to complex engineering and scientific systems.

## Research Interests

- Scientific computing and large-scale data systems
- Machine learning applications in complex engineering systems
- Numerical computing using Python (NumPy ecosystem)
- Automation frameworks for large distributed platforms
- Data analytics and operational intelligence systems

## Technical Skills

Programming Languages: Python, Java, C/C++, SQL

Automation & Testing: Pytest, Playwright, JMeter, Cucumber BDD, Serenity, UFT, TestComplete

Data & Analytics: Splunk, Tableau, OBIEE, Snowflake

Python Ecosystem: NumPy (working knowledge), Jupyter

Databases: Oracle, PostgreSQL, MongoDB, MySQL

Cloud & DevOps: Google Cloud Platform, Jenkins, TeamCity, Bitbucket, Git, CI/CD pipelines

Engineering Practices: System Architecture, Data Modeling, Automation Design, Agile & Scrum

## Professional Experience

### DWS India Pvt Ltd – Deutsche Bank

Senior Technical Analyst – Quality Assurance | Dec 2023 – Present

Working on validation and automation for the BlackRock Aladdin investment management platform supporting trading, portfolio management, and financial data workflows.

- Coordinating global testing activities across trading lifecycle systems.
- Developing API automation solutions using JMeter and Java BDD frameworks.
- Expanding automation using Python frameworks including Pytest and Playwright.
- Supporting data validation and integration testing across financial data pipelines.
- Managing test environments and reporting dashboards for global engineering teams.

### Freelancer – Software Consultant

Sep 2021 – Nov 2023

- Delivered software consulting and web development projects.
- Designed and customized WordPress-based systems using PHP, HTML, CSS, and JavaScript.
- Provided technical consulting on system architecture, security, and performance optimization.

### Tata Consultancy Services Ltd.

Technical Lead | Solutions Architect | Automation Engineering Lead | Feb 2011 – Aug 2021

Worked with global financial institutions across Germany, the United States, and India to design enterprise platforms supporting regulatory reporting, analytics, and trading workflows.

#### Enterprise Platform Architecture

- Designed scalable architectures for regulatory reporting portals.
- Developed modular application frameworks supporting enterprise integrations.
- Designed data models optimized for high-volume reporting systems.

#### Data Engineering & Analytics

- Designed ETL processes migrating legacy data to relational databases.
- Built operational analytics dashboards using Splunk and Tableau.
- Analyzed telemetry data from 100+ enterprise applications.

#### Automation Engineering

- Designed large-scale automation frameworks for distributed systems.

- Led automation platform migration from UFT to TestComplete and Cucumber BDD.
- Developed Python-based deployment automation tools integrated with CI/CD pipelines.

#### Technical Leadership

- Led cross-functional teams of up to 35 engineers across development and testing.
- Collaborated with global stakeholders across Germany and the United States.

#### Halston Software Pvt Ltd.

##### Project Engineer / Software Engineer

- Developed C/C++ device drivers for satellite communication equipment.
- Implemented low-level software interfaces for hardware communication systems.
- Built system utilities and maintenance tools supporting operational workflows.
- Developed a Mac-based email search application using Objective-C.

#### Education

MBA – University of Wales, Cardiff, UK

Bachelor of Engineering – Computer Engineering – University of Mumbai

#### Certifications

- Snowflake Platform Training – Snowflake
- Splunk Fundamentals (Part 1 & 2)
- Deutsche Bank Cloud Engineer – Internal Certification

#### Professional Development

- Advancing knowledge in Python numerical computing and data processing
- Exploring machine learning fundamentals and model evaluation
- Strengthening mathematical foundations for data science applications
- Continuous learning in cloud-native engineering and distributed systems