# Harshul Joshi

## Summary

* *Programming Skills****–*Excellent**: Senior software developer with over 5 years of experience in software design and development. Built APIs in Python for streamlining the risk control analysis process of a multinational bank. Good knowledge of SQL and object-oriented programming. Prepared Tableau dashboards for displaying risk analysis summaries. Decent understanding of cloud-based platform Cloudera and frameworks such as Flask.
* *Analytical Skills–***Excellent**: Developed an end-to-end monitoring and reporting solution for the SCCL regulation. Good understanding of statistical techniques, such as variance analysis and time series analysis, and the basics of ML algorithms.
* *Communication Skills–***Excellent**: Communicated and liaised extensively with key internal and external stakeholders, including operations and technology teams, across locations as part of requirements gathering and business analysis.

## Technical Skills

**Programming Languages**: Python, Flask, Java, C, C++, Java, HTML, SQL, VBA and Bash

**Databases**: MySQL, Microsoft SQL, MongoDB (NoSQL) and MS Access

**Operating System**: Windows, Linux/Unix

**Other Technologies**: Tableau, Cloudera, MS Office and JIRA

## Professional Experience

### Senior Analyst **- CRISIL Ltd., Mumbai,** India(Apr 2017–Present)

**Key Highlights**

* Part of risk data aggregation and risk reporting framework implementation for BCBS 239
* Led the implementation of a daily quality-check framework for data available in the legacy risk management and strategic risk management systems by identifying mismatches at different levels
* Defined and implemented standard and scalable automated architecture for root cause analysis of identified/reported recon breaks and assisted in issue resolution using Python and VBA
* Developed summary reports using Python scripts, as per IMM and Volcker requirements, for FO tech teams to highlight data quality issues impacting RWA calculation. Stored data in the Kudu tables on the Cloudera platform and generated reports using Tableau
* Responsible for gathering requirements, and documenting and developing automation tools for break analysis of the reconciliation process
* Created a customised, scalable variance threshold framework to identify breaches based on last 60-day rolling transaction data
* Won the **R&R award** twice for analytical excellence and break-through initiative for developing this automation process
* Secured first position in a firm-wide strategic generation programme for proposing the idea of an “economic scenario generator” engine

### Technology Analyst **- ZS Associates India Pvt. Ltd.,** New Delhi, India(Sep 2013–Aug 2016)

**Key Highlights**

* Worked across all phases of the SDLC – requirements gathering, architecture design, code implementation, testing and deployment – of an incentive compensation framework developed for a multinational client
* Prepared mock UI views for client solutions, implemented the complete code and applied custom data checks to ensure data quality
* Prepared tools such as MBO Manager and Roster Manager with custom data checks to ensure data quality
* Used various programming languages, such as Python, SQL and VBA, to implement client solutions

### Summer Intern **- Airports Authority of India (AAI),** New Delhi, India(Jun 2011–Aug 2011)

**Key Highlights**

* Implemented a project called “air traffic management system”, a Java-based web application using My-SQL as the database
* This project maintained the records of all flights and their operators and generated summary reports as per air traffic controller/AAI requirements

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## Educational Qualifications

**BTech, Information Technology** - Maharaja Surajmal Institute of Technology, Guru Gobind Singh Indraprastha University