



GAURAV DWIVEDI

Innovative and exceptionally creative to foster ideas that impel the organization towards a result-oriented direction, targeting assignments in **IoT, Cloud Services & BigData Processing** Industry with an organisation of high repute
Location Preference: **India / Overseas**

gaurav.dwivedi82@gmail.com

+91-9718416426



Profile Summary

- ▶ Innovative, proactive & data driven architect with 14+ years of expertise in implementing products/programs/Projects with high customer satisfaction.
- ▶ Experience working as architect defining the roadmap and strategy for increasing customer engagement by giving better quality of service, understanding of latest trends & technologies including mobile based applications.
- ▶ **Certified Google Cloud Professional Architect**
- ▶ Experience in delivering Strategic/Solution Architecture, evaluating emerging trends and Technology and providing cloud/bigdata streaming solutions.
- ▶ Successfully implemented many projects for Cloud (AWS / Azure / Google), RealTime bigdata processing, Governance, NLP (Machine Assisted Translation Systems) and banking domains.
- ▶ Experience in planning & migrating traditional on-prem applications to Cloud centric solutions.
- ▶ Experience in building scalable real time data processing pipelines on Azure Databricks & Azure HDInsight's.
- ▶ Experience on building Microservices with Spring Boot and RESTful web services with Apache CXF.
- ▶ Experience in implementing full SDLC using Java, Hibernate, Tomcat, MySQL /Oracle base Java/J2EE applications.
- ▶ Good Understanding of Design Patterns & Principals.
- ▶ Well versed with different phases of product life cycle: idea pitching, brainstorming, feature prioritization, creating vision, business and engineering teams, technical solution, product testing, experimentation and KPI monitoring.
- ▶ Excellent time management and project management skills to deliver the projects on time.

Selected Highlights and Contributions

IoT driven & BigData powered
Alert Management System build around Microsoft Azure

Real Time Data Processing Product
'StreamAnalytix' build around AWS/Azure/Spark/Kafka

Java/J2EE applications for
TalentManagement,E-Governance,Banking,NLP



Core Competencies

Architecture Planning

Project Management

Innovation

Cloud Solutions (AWS/Azure/GCP)

Design and Development

Cross-functional Coordination

Big Data Processing Solutions

Rest Web Services

Team Building & Leadership

- ▶ **Amazon Web Services (AWS):** S3, Kinesis, IOT-Core, SQS, SNS, Lambda, EC2, IAM
- ▶ **MS Azure:** IOT-Hub, EventHub, BlobStorage, RDS, ServiceBus, Functions, HDInsight & Databricks Clusters
- ▶ **Google Cloud:** Cloud Storage, PubSub, SQL, DataFlow
- ▶ **Bigdata Ecosystems:** Zookeeper, Kafka, Ambari, RMQ, Spark Streaming
- ▶ **Languages/Libraries:** Core Java, Scala, JDBC, SQL/PLSQL, Log4j, MAVEN
- ▶ **Rest Web-Services:** REST Apache CXF
- ▶ **RDBMS:** Oracle, MySQL, Postgres
- ▶ **Operating Systems:** Windows 98/ XP / VISTA / Linux / Ubuntu / Centos
- ▶ **Version Management Tools:** VSS, SVN, GIT, JIRA

Career Timeline



Lead Software Engineer, Saba Software , Pune	July'14 – Feb'15
Sr. Associate – Software, Synechron Technologies, Pune	June'12 – June'14
Senior Engineer – Product Development, SunGard Financial Services (now FIS) , Pune	Nov'10 – June'12
Member Technical Staff, CDAC Research & Development (Applied Artificial Intelligence Group)	Aug'07 – Oct'10
Trainee programmer , MindZone Technologies & Software Solutions	Oct'05 – Dec'06

Education & Credentials

- ▶ Post Graduate Diploma in Advance Computing (PG-DAC) from CDAC-ACTS (Feb'07 – Aug'07)
- ▶ Bachelor of Engineering in Computer Science, UP Technical University 2005
- ▶ Intermediate from B.N.S.D Inter College Kanpur (U.P Board) in 1999
- ▶ High School from B.N.S.D Shiksha Niketan Kanpur (U.P Board) in 1997

Personal Details

Date of Birth: 29th April 1982
Languages Known: English, Hindi

Technical Architect , HCL Technologies	Oct'18 – till now
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Project Description:

- **CAT - AMS (Alert Management System)** : Caterpillar is the world's leading manufacturer of construction, mining, paving and construction equipment. Caterpillar used to build IOT enabled road construction equipment like paver & truck.
CAT - Alert Management System is real time IOT solution which monitors the equipment geo locations and generates alerts based on geo fencing around the equipment as well as real time alerts for fuel, speed, utilization etc.
Platform: Microsoft Azure (EventHub, ServiceBus, Functions, AzureSQL, SNS, WebJobs), Java, SpringBoot
- **Harris Workorder Management :**
Harris workorder management system is facilitator between Harris's image analytics platform & Kloudgin workorder management platform.
Platform: AWS (Lambda, S3, SNS, EC2, IAM, Kloudgin Workorder API)
- **CAT – TERRA Databricks Migration:**
CAT – Terra is migration project where we planned migration from traditional Azure WebJob data processing to Spark based real time streaming data processing on Azure Databricks clusters.
Platform: Microsoft Azure (Databricks Cluster, EventHub, AzureSQL, SNS, BlobStorage), AWS Snowflake, Java, Scala

Responsibilities:

- Worked & delivered POC for **CAT – TERRA Databricks Migration**.
- Designed solutions for migration of webjob data processing to cloud based bigdata optimize End to End streaming and content delivery data pipelines.
- Designed HLD & LLD for bigdata migration over spark for all data pipelines.
- Designed test strategy, performance optimization, databricks cluster capacity planning for all data pipelines.
- Proposed solutions in **CAT-AMS** for data retry, data failover & disaster recovery for AMS.
- Proposed solutions overs performance monitoring, custom metrics, health check alarms-based dashboard.
- Design & implementation of geo-fencing alarm system.
- Manged team to achieve the short goals over test-coverage, project documentation, sonar coverage.
- Worked, designed and developed **Micro Services business components for Harris Workorder Management POC**.
- Implemented **Amazon Web Services solutions using EC2, S3, RDS, SNS, IAM, LAMBDA**.
- Provided technical assessment, analysis of image analytics platform integration with workorder API.
- Created executive dashboard and status report and shared with leadership team on a weekly basis.
- Worked with internal teams to develop and validate schedules and project plans; planned, scheduled, tracked and managed project timelines, milestones and deliverables.
- Created, documented and maintained all centralized product integrations processes and project communications.
- Drafting weekly status reports to let all involved parties know projects reviewed in process, closed and to be reviewed.
- Ensured all current ad formats and targeting work across new platform releases.
- Prioritized product pipeline effectively based on company strategies, resources and time.

Lead Software Engineer , Impetus Infotech

Mar'15 – Oct'18

Project Description:

StreamAnalytix is a real time streaming analytics product to ingest, process and persist huge data. StreamAnalytix provides In-memory data processing to transform data as it arrives; perform data filtering, data blending and data enrichment at scale, to prepare for analytics and machine learning jobs. StreamAnalytix can ingest & persist data from on-premises data stores as well as cloud data stores.

Platform: Apache Spark, Zookeeper, Kafka, RMQ, Ambari, HDP, Cloudera, AWS(S3,SQS,Kinesis,DynamoDB,RDS,Lambda,IoT-Core), Azure (IoT-Hub, EventHub, ServiceBus, Functions, AzureSQL, SNS), Azure HDInsight's & Databricks Cluster, AWS EMR

Responsibilities:

- Worked as technical lead & part of product management team.
- Worked on developing the spark connectors for cloud services AWS (SQS, SNS, Lambda, DynamoDB, RDS), Azure (EventHub, ServiceBus, Functions, CosmosDB, RDS) etc.
- Worked on hosting StreamAnalytix on Azure HDInsight's.
- Worked on hosting StreamAnalytix on Azure Marketplace as HDInsight's third-party service.
- Worked on hosting StreamAnalytix on AWS EC2 machine clusters.
- Worked on managing on-perm cluster, HDP cluster through Ambari.
- Performed walkthrough the applications with the help of requirements, design docs to know third party components, custom build components, dependencies and technologies. Also identify some end-to-end test.
- Worked on different product comparisons with StreamAnalytix to identify product gaps & market demands.
- Spearheaded a team for development of various spark connectors for SOLR, Marketo & various cloud connectors.

Lead Software Engineer, Saba Software

July'14 – Feb'15

Project Description:

Saba Enterprise is enabling a social, predictive, and collaborative hiring process that helps find the best candidates – internal or external, passive or active. With the SmartHire Assistant, hiring managers make more objective comparisons and better decisions. Integrated learning, performance, and social capabilities streamline the onboarding process and accelerate the new hires' time-to-productivity.

Platform: Spring, CoreJava, Oracle, EXTJS, TOMCAT, JDBC, Rest Web Services

Responsibilities:

- Worked as an individual contributor to deliver rest services for appraisal system.
- Design & implemented Job apply process through LinkedIn integration.
- Participated in automation scripts development, debugging, reviews, analyse results & reporting defects

Sr. Associate – Software, Synechron Technologies**June'12 – June'14**

FIRS (Food Import & Re-Export System) developed to cover the business requirements of Food control department and mainly maintaining and managing food import & re-export activities.

- Backend application called as “BFIRS” (Backend FIRS) which used by internal users
- Front-end application called as “EFIRS” (Frontend FIRS) which used by customers and internal users as well.

Platform: Struts 1.2, CoreJava, Oracle 11g, Tomcat, jQuery

Responsibilities:

- Worked as senior developer on requirement analysis & scope finalization for new requirements.
- Worked on BRD implementation along with bug fixes.

Senior Engineer – Product Development, SunGard Financial Services (now FIS)**Nov'10 – June'12**

Apex is a consolidated front-to-back office solution that supports equity and fixed income securities lending and repo trading.

- Supports Securities lending/borrowing
- Supports Cash Management / Collateral Management

Platform: Core Java, Hibernate2.0, Freemarker, Oracle, JBOSS

Responsibilities:

- Implemented Freemarker based Code-Generator module which generated SQL, C++, XML, JAVA class files.
- Development, bug fixes, unit test etc.

**Member Technical Staff, CDAC Research & Development
(Applied Artificial Intelligence Group)****Aug'07 – Oct'10**

English to Indian Language Machine Translation (E.I.L.M.T) is English to Indian language Machine translation System which translates English to six Indian languages (Hindi, Marathi, Urdu, Bengali, Tamil, and Oriya)

Platform: Core Java, Struts1.2, Hibernate, MySQL, JBOSS

Responsibilities:

- Developed Reduction mechanism & disambiguation mechanism in pre-processing module.
- Developed Morph Synthesizers (Noun & Verb Synthesizer, Noun Synonym Synthesizer, and Modifier Synthesizer) for six different Indian languages in the Post processing Module.

Trainee programmer , MindZone Technologies & Software Solutions**Oct'05 – Dec'06****Responsibilities:**

- Working as trainee & support engineer on product demo & installation.