**Abirami G**

*Senior Engineer |Certified AWS Solution Architect |Database Administrator*

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*AWS Certified IT Architect with over 18 years of experience in cloud migration, API design, and database management. Proven expertise in implementing innovative solutions and optimizing performance across various platforms. Strong background in both development and operations, enhancing media delivery systems and leading cross-functional teams to achieve operational excellence.*

**Technical Skills:**

* **Cloud Services**: S3, CloudFront, CDN, Route53, Elastic Load Balancer, Amazon RDS, Lambda
* **Operating Systems**: Red Hat Linux, AIX 6.1, z/OS 1.10 (IBM Mainframe)
* **Source Code Management**: GIT, IBM Rational Quality Manager, SCLM
* **Deployment Orchestration**: IBM UrbanCode Deploy
* **CI/CD**: Jenkins
* **Programming and Scripting**: Unix Shell, PL/SQL, PL/1, COBOL, JCL
* **Methodologies**: Agile, Waterfall
* **Database**: DB2 UDB v11.1, IMS v10
* **IBM Tools**: ISAM, ISDS, WebSphere MQ, DB2 Connect, DB2 Control Center, DB2 Replication Center, Data Studio, SPUFI, QMF

**Education:** Bachelor’s in Electrical and Electronics from Madurai Kamaraj University India, Apr 2003

**Certification:**

* AWS Certified Solution Architect Associate
* IBM Quality Ambassador Certification

**Professional Experience:**

**DIRECTV Inc July 2019 –Till Date**

**Senior Engineer**

* Migration and Cloud Integration: Migrated DIRECTV Video On Demand (VOD) Workflow: Transitioned from on premise services to the Open Video AWS Cloud platform, achieving significant cost reductions.
* Enhanced Media Delivery: Implemented CloudFront S3 Origin CDN to accelerate media file delivery.
* Comprehensive VOD Workflow Understanding: Proficient in both linear and non-linear VOD workflows from asset ingestion to customer delivery.
* End-to-End Workflow Validation: Analyzed and validated workflows across various Head end systems.
* API Design and Documentation: Designed and documented APIs using REST-Assured and Postman, focusing on JSON and XML response validation.
* Requirements Documentation: Drafted and maintained comprehensive software/business requirement documents for REST API projects.
* Testing and Performance Analysis: End-to-End Testing Conducted thorough testing on DirecTV offerings, including VOD, Live Streaming, C3, 4K, and Electronic Sell-Through (EST) on set-top boxes and mobile applications.
* Performance Bottlenecks Analysis: Utilized New Relic for identifying and analyzing performance issues.
* Requirement Gathering and User Stories: Managed requirement gathering, user story creation, and assessment of user acceptance criteria.
* Incident, Problem, and Change Management: Well-experienced in effectively managing incidents and implementing changes to minimize disruptions.
* Production Support: Actively resolved low to critical priority production incidents, ensuring timely and effective solutions.
* Communication and Collaboration: Excellent communication skills with a focus on clear technical documentation and effective stakeholder engagement.
* Experienced in Jira, SoapUI, Postman, and REST-Assured for comprehensive API testing.

**IBM Watson Health Commercial Operations Nov 2016 – June 2019**

**Devops Engineer**

* Performed Devops support for IBM Watson Health cloud deployment.
* Deployed, configured and troubleshooted IBM Watson Health GxP platform components such as Consent Manager, Data Deidentification, IBM Open Platform, IBM Security Access Manager & IBM Security Directory Server.
* Deployed on CI/CD pipeline with automation tools like Jenkins and IBM Urban Code Deploy.
* Planned and managed Release activities in Watson Health project.
* Work with development and systems teams for merging branches and code for build Release Candidate.
* Actively used Quality Management Systems for reviews during release management.
* Performed automated build and release management using Jenkins, Git hub and IBM Urban Code Deploy framework.
* Created and supported single sign on for users with Identity Federation and assigned roles per the job roles.
* Integrated IBM Cloud identity services like IBM Security access management and IBM Security Directory Server with Watson health platform for user access.
* Provisioned whitelisting of servers for Watson Health project.
* Deployed and effectively used Elastic search, Kibana dashboard, Logstash as part of logging monitoring and alerting.
* Onboarded IBM Watson DB2 study databases on IBM cloud instance to be accessed by Medical Professionals, Patients and Data Engineers.
* Created and modified databases, DB2 UDFs, Partitioned Tables, Clustering Indexes, Triggers and Stored Procedures etc on cloud.
* Provided Role Based Access Control to Users and testers with IBM Security Directory Server LDAP API’s. Performed LDAP commands to add users from backend.

**IBM Steady State Maximo Support (5 yrs) Jul 2012 - Oct 2016**

**DB2 UDB DBA**

* IBM Maximo Asset Management is an Enterprise Asset Management software which combines asset management with maintenance management. From a single system, companies can monitor and manage the full life cycle of their enterprise assets, including facilities, communications, transportation, production, infrastructure and more.
* Supported Maximo software as DB2 UDB DBA.
* Extensively analyzed the server requirements. Planned and designed memory, space, hard disk, table spaces, logs for DB2 database migration from AIX 6.1 server to RHEL Linux 6.0 Server.
* Designed Logical and physical databases, Installed, Upgraded, Migrated and Customized DB2 (LUW) 9.5 and 9.7 version in AIX and Linux environments for various accounts with Load Balancing.
* Strong expertise in DB2 tools such as Control center, IBM Data studio, Replication center & Command Centre.
* Performed Disaster Recovery activities for DB2 database using DB2 High Availability Disaster Recovery (HADR) with Tivoli Systems Automation (TSA).
* Optimized Database performance by tuning SQL queries, environment, memory, network and OS configurations.
* Performed Data refresh and cloning of production database in test environment.
* Installed, Deployed and Configured MQ Infrastructure at enterprise level with distributed queuing and clustering (configured MQ objects like Queues, Channels, listener, etc.,), Setup MQ Replication and Implemented fail over for high availability of servers.
* Installed, Configured, Upgraded and Migrated IBM Security Directory Server 6.2 and 6.3.
* Worked closely with DB2, MQ, WebSphere and TDS PMR Support teams to track down product issues, report/escalate to appropriate levels and implement fix in respective products. Troubleshoot and resolved errors in DB2, HADR, MQ by analyzing Dumps, Error and Diag logs.
* Optimized Database and system performance by tuning SQL queries, environment, memory, network and OS configurations.

**IBM India Pvt Ltd, India. (5 yrs) Oct 2006 - Oct 2011**

**Business Analyst**

* eHR-NADM is a Maintenance & Enhancement project that serves various EMEA IBM HR clients like Austria, CEMA, Greece, Spain, Nordics, Netherlands, Belgium and South Africa.
* Analyzed the requirements and developed Mainframe batch programs using PL/1, JCL with IMS and DB2 data source as backend in Agile methodology.
* Performed the role of Scrum Master and led JAD sessions for gathering Requirements.
* Mastered all IBM Mainframe tools such as SPUFI, QMF, File Manager for DB2, SCLM and OPC.
* Created, modified DBD’s, ACB’s, inserted new segment for implementing business and maintaining data in IMS database.

**Infosys Technologies Ltd, India (1 yr) Oct 2004 – Nov 2005**

**Software Engineer**

* Aetna US Healthcare Inc. is a health insurance major in USA providing medical insurance to numerous corporate giants and individuals. AETASFG5 project is a fixed price maintenance and Enhancement project for AES/HMO Billing suite of application.
* Analyzed the complete HMO Billing suite and the impact on it.
* Created detailed design for the end to end application.
* Estimated the implementation effort using Wide Band Delphi technique.
* Implemented several batch programs using COBOL, JCL & REXX., with DB2, IDMS & VSAM files as data source. Also developed DB2 stored procedures, functions, and triggers.
* Executed Unit, Integration and Regression testing of the system.
* Championed the role of Configuration Controller for this project using Endeavor and VSS.
* Created Bind cards, Job cards for code deployment and execution.
* Exhaustive knowledge on IDMS database. Mastered IDD, ADSO and OLQ.