

Balaji Ramalingam

Senior Mainframe Developer

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Professional Summary

- Over 5 years of IT industry experience in **IBM Mainframe Development, Performance Optimization, Lab Services**
- Experience working in **Retail** and **Banking** domains
- In-depth working knowledge in Software Development Life Cycle(**SDLC**) that includes Requirement gathering, Impact analysis, Unit testing, Defect analyzing and fixing, Implementation and Documentation
- Performs performance tuning to improve performance of mainframe applications and track its performance to ensure it meets the defined Service Level Agreement
- Formulates and defines the scope and objectives of assigned project
- Provide Lab services for Rational Business Developer(RBD) Product to Customer.

Technology & Tools

- Mainframe (**IBM z/OS, COBOL, JCL, DB2, VSAM, REXX & CICS**)
- Knowledge in utilities tools like **IEFBR14, IEBGENER, IEBCOPY, IDCAMS, DFSORT, SYNCSORT**
- Worked on mainframe configuration management tools like **Changeman, Endeavor**
- Hands on experience in DB2 tools such as **SPUFI, File Manager/DB2, DB2 Platinum, QMF**
- Worked on **IBM IDz/RDZ Workbench** for coding, unit testing, debugging mainframe applications and used **IBM UrbanCode Deploy** for Package deployment
- Worked on **IBM Fault Analyzer** for Fault analysis, **IBM Debugger** for Code Debugging, **zUnit** for Unit testing the mainframe applications
- Worked on **IBM z Batch Network Analyzer (zBNA)** open source tool to identify the top CPU consuming batch jobs in the peak R4HA window and analyze its respective top CPU consuming Steps and Programs for tuning
- Worked on **IBM Application Performance Analyzer(APA)** to identify the hotspots in the Batch and CICS applications
- Worked closely with IBM for a Proof of concept of DSCLIENT API feature in **IBM Data Virtualization Manager** Product to offload the data processing of traditional COBOL application to ZIIP
- Worked on **IBM z Rational Business Developer(RBD)** to develop applications in **EGL** and deploy the generated COBOL in Mainframe target platforms

Organizational Experience

- Worked as **Mainframe Developer & Performance Analyst** in **CTS** from **Aug-2016 to Dec-2020**
- Working as **Senior Mainframe Developer** in **HCL Software (Products & Platforms Division)** from **Dec 2020 to Present**

Mainframe Developer & Performance analyst:

(Exp: Aug-2016 to Dec-2020, Org: CTS)

Project-1:

Project Title	DB2 to Oracle Database Migration
Client	US based Retail customer
Technology	IBM z/OS, COBOL, JCL, REXX, DB2, ORACLE, APA
Role	Mainframe Developer & Performance Analyst
Description	DB2 to Oracle Database Migration - Redirection of DB2 SQL calls in the mainframe application to Oracle via DRDA involving Development , Unit testing and Optimizing the SQL redirected applications to reduce the introduced DRDA latency and ensure they meet the SLA
Duration	Nov 2016 to Jul 2019
Work Location	Chennai, Tamil Nadu

Job Responsibilities:

- Analysis, Requirement gathering, Impact analysis, Development and Unit testing
- Identifying the impacted COBOL/DB2 programs that uses the DB2 tables to be migrated to Oracle
- Code changes for redirecting the DB2 SQL's to Oracle via DRDA in the impacted programs and Unit testing the changes
- Postproduction support, monitoring the implemented Jobs and transaction and providing immediate fix to failures using problem determination tools like IBM Fault Analyzer
- Tuning and monitoring the High DB2 activity applications pre migration to meet the SLA post migration, which involves below activities
 - Analyzing CA DB2 Platinum dump to identify the PLAN's of Jobs and transactions with high DB2 SQL activity
 - Profiling the identified Batch Jobs and transactions using APA and identifying potential hotspots for tuning from the profile reports
 - Unit testing the optimization changes
 - Monitoring and tracking the tuned applications post implementation
- Implementing new features in SPLUNK Mainframe Performance capacity dashboard. Mainframe Backend data gathering job preparation with FTP step to SPLUNK server. Eg:- SMF 30 Batch Elapsed/CPU report Job, SMF110 CICS Transaction Response/CPU time report Job

Project-2:

Project Title	MIPS Optimization
Client	Europe based Banking customer
Technology	IBM z/OS, COBOL, JCL, REXX, DB2, APA
Role	Mainframe Performance Analyst
Description	MIPS Optimization - Providing Optimization Recommendations with Proof of concept(CPU Savings) in a Test region for top CPU consuming CICS transactions in a Banking application
Duration	Aug 2019 to Present
Work Location	Chennai, Tamil Nadu & Utrecht, Netherlands

Job Responsibilities:

- Assessing the MIPS Utilization of the Banking application by collecting the data from the customer reporting tools
- Identifying the top CPU consuming CICS transactions in the application
- Profiling the identified transactions in Production equivalent regions, Eg: Performance testing regions using Profiling tools, Eg: IBM APA and generating the profile reports
- Analyzing the Profile reports and identifying the hotspots in the transactions
- Identifying the Opportunities of tuning the hotspots and Unit testing the tuning solutions in the test region
- Document the Proof of Concept with the test results (CPU Savings) of the modified transactions and share it to the application development team
- Have sessions with application development team for best practices of coding in COBOL, Eg: Implementing new features in COBOL and DB2, Using efficient COBOL Compiler Options, DB2 SQL tuning, COBOL Data Caching etc.

Senior Mainframe Developer:

(Exp: Dec-2020 to Present, Org: HCL Software (Products & Platforms Division))

Project:

Project Title	Rational Business Developer(RBD) product Lab services
Client	Australian Customer
Technology	IBM RBD, z/OS, COBOL, JCL, DB2
Role	Senior Mainframe Developer
Description	Assist the customer to upgrade the unsupported version RBD product to latest supporting version for both RBD Desktop Client & Mainframe Server component and do migration for a sample customer EGL application developed in old version RBD to latest and support the migration of rest of the EGL applications done by customer
Duration	Dec 2020 to Present
Work Location	Jigani, Bangalore (Current: WFH)

Job Responsibilities:

- Create plan and scope for the Upgrade & Migration activity for Rational Business Developer(RBD) and its dependencies on Client & Host machines
- Migrate the existing sample projects developed in EGL in old version RBD to latest version of RBD
- Generate/Compile the migrated sample EGL applications with latest RBD COBOL runtime in Mainframe and solve any compilation issues if encountered.
- Unit test and deploy the code in production after successful QA(SIT, UAT) testing & Sign Off for implementation.
- Hands-on training to the Client developers to perform future upgrades & Migration on their own

Academics:

- **B.E in Electronics & Communications Engineering** with First Class from University College of Engineering Villupuram, Tamil Nadu in 2015
- **XII** with First Class from Krishnasamy Memorial Matriculation Higher Secondary School, Cuddalore, Tamil Nadu in 2011
- **X** with First Class from Krishnasamy Memorial Matriculation Higher Secondary School, Cuddalore, Tamil Nadu in 2009