# KRUPAKAR REDDY P

# Mainframe Z/os System Programmer

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**EXPERIENCE SUMMARY**

* **Overall, more than 11+ Year in IT and 10+ years** of experience in Sr. Mainframe Developer and hands on Mainframe System Engineer with extensive knowledge of IBM z/OS, including LPAR configuration, MQ Series, DB2, COBOL, JCL, VSAM, and CICS.
* Adept at managing IBM’s file structures such as HFS, ZFS, and PDS, as well as using TSO and DFSMS for efficient system administration. Skilled in Copy Service Manager (CSM) management and proficient in network protocols such as Ethernet, FICON, and virtualization for z/OS environments.
* Extensive Knowledge in requirement gathering, analysis, design, development, implementation, testing, integration deployment, documentation and maintenance of IBM Mainframe applications.
* Extensively worked on Analysis, Design, Coding, Testing, Implementation and Maintenance of mainframe applications using COBOL , PL1 , Stored Procedures , JCL , DB2 , CICS , VSAM , MQ , and different tools and Utilities like ENDEVOR , DB2 File-Aid , IBM Debug tool , DB2PM , QMF , In-sync, RSM, WBM, RTC, VISIO .
* Perform software development and maintenance of IDMS COBOL batch and ADSO dialogs.
* Experience working in the domain of Insurance, Retail, Financial and Banking applications. Extensive hands on experience on IBM Mainframe Application programming.
* Maintain all native IDMS I/O routines, application programs, and ADSO on-line screens.
* Design, code and test applications for Distribution and Warehouse Inventory applications using COBOL II, CICS, DB2, and MQ.
* Main responsibility is to produce TAD from the existing legacy programs (Assembler)
* Ability to multi-task work across different applications. Diverse work experience with different functionalities of the application, with Development and Production Support projects.
* Experience working on the project built using the Agile Methodology. Involved in the estimate planning, design discussions and scrum meetings for the project.
* Worked directly with Business Analyst for understanding requirements and convert them into technical designs.

**TECHNICAL SKILLS**

* **Mainframe Technologies**: IBM z/OS, LPAR Configuration, MQ Series, DB2, COBOL, JCL, VSAM, CICS, TSO, DFSMS, IBM Copy Service Manager (CSM)
* **File Systems**: HFS, ZFS, PDS
* **Network Configurations**: Ethernet, FICON, LAN, WAN, VPN, Firewall
* **Virtualization**: z/OS Virtualization, z/VM
* **Programming Languages**: COBOL, JCL, DB2 SQL
* **Database Management**: DB2, VSAM, SQL
* **Tools & Utilities**: CICS, TSO, z/OS Workload Manager (WLM), IBM z/OS Management Facility (z/OSMF)
* **Backup & Recovery**: IBM Copy Services, Data Replication, DFSMS
* **Security**: z/OS Security, RACF, Access Control, VPN Configurations

**EXPERIENCE DETAILS**

**Cardinal Health, Remote, United States||Oct 2023 – Present**

**Mainframe Z/os System Programmer**

**Responsibilities:**

* Administered IBM z/OS environment with multiple LPAR configurations, optimizing performance and resource allocation for critical applications.
* Performed day-to-day system administration of IBM z/OS, including configuration, maintenance, and troubleshooting of LPARs and system components.
* Conducted performance monitoring and tuning of mainframe systems, providing recommendations for capacity planning and workload balancing.
* Served as technical lead for mainframe upgrade projects, coordinating with vendors (IBM, Broadcom) and internal infrastructure teams.
* Automated recurring administration and monitoring tasks using REXX and JCL utilities, reducing manual effort and improving accuracy.
* Administered CA Top Secret (TSS) security on z/OS platforms, including user provisioning, permissions, and dataset access controls.
* Supported Mainframe Production Control and Scheduling (JOBTRAC, OPC), ensuring accurate execution of daily and monthly batch cycles.
* Provided support for JES2, SMS, RMF, SMF, and WLM configurations to optimize performance and reliability of production systems.
* Performed role-based access management (RBAC) and implemented security rules to enforce least-privilege access.
* Worked extensively with MQ Series to configure and manage message queues for data transfer between systems, ensuring high availability and reliability.
* Utilized DB2 for mainframe database management, executing complex queries, optimizing database performance, and managing large datasets in high-demand environments.
* Developed and maintained COBOL programs to support legacy applications, enhancing functionality and performance while ensuring compliance with system standards.
* Designed and executed JCL scripts to automate batch jobs, ensuring efficient job scheduling, monitoring, and error handling across the mainframe environment.
* Implemented and administered VSAM datasets, configuring high-performance data storage for business-critical applications.
* Configured and managed CICS regions, ensuring robust transaction processing and high system availability for end-users.
* Configured IBM z/OS file systems, including HFS, ZFS, and PDS, to manage data storage and application execution.
* Administered TSO for interactive mainframe sessions, supporting application developers and system administrators with a variety of troubleshooting and configuration tasks.
* Managed the IBM DFSMS environment to streamline data storage, migration, and backup procedures.
* Worked on z/OS virtualization technologies, setting up virtual machines and managing virtualized resources to improve system flexibility and disaster recovery capabilities.
* Provided on-call support for critical system incidents, minimizing downtime and ensuring business continuity for enterprise applications.
* Performed program analysis, coding, testing and implementation of insurance claims related applications, many of which were online in nature and developed and maintained using TELON, APS, COBOL II, CICS, DB2, and VSAM
* Debug defects using Mainframe debugging tools like XPRDITER and Data related issues using File-Aid.
* Worked on ENDEVOR for version controlling of the source code.
* Retrieving source from production environment to test environment using ENDEVOR. Performing various activities using ENDEVOR creating SCL, for promoting code to different environments.
* Creating packages in ENDEVOR promoting code to production live environment.
* Working on Incidents related to Business and Technical issues.
* Worked under Agile methodology of software Development.
* Participated in sprint planning with other scrum members.
* Preparing implementation strategy and providing the support for implementation of the programs.
* Supporting Production environment based on ON-CALL schedule.

**Prudential Financial, California, USA||Jan 2022 - Sep 2023**

**Mainframe Z/os System Programmer**

**Responsibilities:**

* Administration of IBM z/OS LPAR configurations, ensuring optimal resource allocation and performance for mission-critical applications.
* Delivered technical consultation to mainframe modernization and transformation projects, ensuring backward compatibility with legacy systems.
* Analyzed RMF/SMF reports to identify bottlenecks and improve resource utilization across LPARs.
* Provided support for JES2, SMS, RMF, SMF, and WLM configurations to optimize performance and reliability of production systems.
* Monitored and audited TSS security logs to ensure compliance with enterprise security policies and regulatory requirements.
* Resolved security-related incidents in coordination with auditors and internal security teams, ensuring system integrity.
* Installed, upgraded, and maintained system software using SMP/E, ensuring compatibility with enterprise applications.
* Diagnosed system software issues, performed root cause analysis, and implemented corrective actions to restore service quickly.
* Prepared and maintained technical documentation, runbooks, and security procedures for system operations and audits.
* Utilized tools like BlueZone, ISPF, TSO, and SDSF for system management and monitoring.
* Utilize MQ Series for enterprise messaging, ensuring data communication between systems is efficient and reliable.
* Manage DB2 databases, optimizing performance and maintaining system integrity for high-volume transaction processing.
* Provided 24x7 on-call support for production incidents, minimizing downtime for business-critical applications.
* Lead COBOL-based development efforts for maintaining legacy systems, enhancing operational performance and ensuring smooth business functionality.
* Implement complex JCL scripts for job scheduling, monitoring, and error handling in production environments.
* Administer VSAM datasets for critical applications, ensuring fast, reliable data retrieval and storage.
* Manage CICS regions to ensure efficient transaction processing and real-time data updates, minimizing system downtime.
* Oversee backup and recovery processes using IBM Copy Service Manager (CSM), maintaining business continuity during data disasters.
* Configure and maintain z/OS virtualization environments, improving system flexibility and disaster recovery capabilities.
* Administered and configured IBM z/OS systems for large-scale enterprises, managing LPARs to ensure system availability and optimal resource distribution.
* Managed TSO environments to assist developers and administrators in their day-to-day tasks, improving efficiency and reducing system bottlenecks.
* Implemented and maintained DFSMS for managing data storage, migration, and backup, ensuring data security and compliance.
* Worked with IBM z/OS virtualization tools to streamline resource management and system utilization.
* Developed simple to complex, time sensitive and high-volume applications in both batch and online Mainframe environments using COBOL, CICS, Easytrieve, JCL, UNIX, FTP jobs etc.

**State of Hartford, Hartford CT, USA||** **Aug 2019 - Dec 2021**

**Mainframe Developer**

**Responsibilities:**

* Configure and maintain IBM z/OS systems, ensuring efficient operation and optimal resource allocation across multiple LPARs.
* Designed and implemented enterprise-wide TSS security policies, including dataset access rules, resource rules, and facility class protection.
* Performed LPAR performance tuning using RMF and SMF metrics, leading to improved CPU utilization and workload balancing.
* Supported mainframe modernization initiatives, integrating legacy applications with distributed systems using TCP/IP, FTP/SFTP, and Connect:Direct.
* Conducted knowledge transfer and training sessions for junior system programmers and operators on TSS administration and z/OS monitoring.
* Validated and configured TLS/SSL certificates to ensure secure encrypted connections across z/OS applications and partner systems.
* Analyzed WLM (Workload Manager) policies and adjusted service classes to improve transaction throughput and reduce batch delays.
* Coordinated with auditors and compliance teams to ensure SOX, PCI-DSS, and internal security policies were enforced in the z/OS environment.
* Manage and troubleshoot MQ Series for secure and efficient message queuing between applications.
* Administer DB2 for both transaction processing and data management, ensuring high availability and performance.
* Develop and enhance COBOL programs for legacy applications, optimizing functionality while reducing processing time.
* Design and execute complex JCL scripts for automating batch job schedules and monitoring job success/failures.
* Maintain and optimize VSAM datasets for critical business data, ensuring fast and reliable data access.
* Configure and support CICS regions, enhancing transaction processing and real-time updates across enterprise applications.
* Manage z/OS virtualization and workload management to optimize system utilization, ensuring high availability and disaster recovery readiness.
* Implement Copy Service Manager (CSM) for data replication and backup, providing reliable data recovery options.
* Administered and optimized z/OS environments, ensuring maximum uptime and availability for mission-critical applications.
* Configured and maintained IBM’s DFSMS for automated data management, ensuring efficient data storage, migration, and archiving.
* Oversaw TSO usage for daily system interaction, assisting users with troubleshooting and system maintenance tasks.
* Collaborated with cross-functional teams to enhance system performance, troubleshooting and resolving issues swiftly to minimize downtime.
* Understanding & analysing the requirements of the module.
* Prepare System requirements specification document
* Gathered business requirements by conducting detailed discussions with business users, stakeholders, and Subject Matter Experts (SME’s).
* Support the E2E testing during SIT and UAT phases which involves multiple vendors and Multiple applications.
* Prepare high level &low-level design.
* Code construction & optimization as per standards and guidelines as per FS/1 architecture.
* Developing testing strategies for efficient and error free testing (like preparing Unit Test plans and doing Unit Test reviews).

**E Trade, Menlo Park, CA ||** **Jul 2017 - Jun 2019**

**Mainframe Developer**

**Responsibilities:**

* Administration of IBM z/OS systems, ensuring proper configuration and management of multiple LPARs to maintain efficient resource utilization across the enterprise.
* Developed dashboards and reports for capacity planning, forecasting growth and avoiding costly unplanned upgrades.
* Prepared detailed system documentation, runbooks, and troubleshooting guides to streamline operations and onboarding.
* Provided subject matter expertise in IMS, CICS, DB2, and VSAM integration with external applications during system migrations.
* Conducted security penetration testing and access reviews to identify gaps, remediate risks, and harden mainframe security.
* Automated TSS reporting and compliance checks with REXX/JCL, reducing audit preparation time by 40%.
* Participated in GDPS disaster recovery testing, validating TSS and z/OS security configurations across primary and backup data centers.
* Administer and configure MQ Series for high-performance message queuing across systems, enhancing communication between critical applications and improving transaction reliability.
* Manage DB2 databases, performing regular maintenance and optimization tasks to ensure high performance and availability for mission-critical applications.
* Develop and maintain COBOL programs for legacy system support, improving processing times and enhancing operational efficiency.
* Write and maintain JCL scripts to automate batch jobs, job scheduling, and monitoring tasks, reducing manual intervention and increasing system uptime.
* Implement and manage CICS regions to support transaction processing and business-critical real-time applications.
* Perform regular backups and recovery tasks using IBM Copy Service Manager (CSM), ensuring data integrity and rapid recovery during system failures.
* Support z/OS virtualization efforts to enhance system flexibility, improve disaster recovery, and reduce hardware dependency.
* Administered IBM z/OS environments, managing network configurations (Ethernet, FICON) for seamless data transmission between mainframe and distributed systems.
* Managed VSAM datasets and PDS file structures to support business-critical applications, optimizing data retrieval times and minimizing system downtime.
* Configured and managed IBM’s DFSMS for efficient data storage, archiving, and migration tasks, improving overall storage management.
* Collaborated with cross-functional teams to troubleshoot and resolve system issues quickly, ensuring minimal impact on business operations.
* Utilized TSO to perform daily administrative tasks, assisting developers and supporting team members in troubleshooting system-related issues.
* Enhancement of batch and online programs.
* Daily conference calls on several issues and development discussions.
* Providing production support for all the abends.

**Walmart, Bentonville, AR, USA||Mar 2015 to Jun 2017**

**Software Engineer /Mainframe Developer**

**Responsibilities:**

* Client interaction for project delivery & timelines
* Requirement gathering, Analysis and process improvement
* Supported IBM z/OS and related mainframe technologies, including MQ Series, DB2, and VSAM, ensuring stable operations for critical systems.
* Assisted in the configuration and management of HFS, ZFS, and PDS file structures for streamlined file management and access.
* Provided ongoing system monitoring and reporting to ensure the continuous availability of key systems, resolving issues before they impacted end-users.
* Assisted in developing and maintaining JCL scripts for job automation, minimizing errors and improving the efficiency of batch processes.
* Used OPC Scheduler to schedule the job flows in UAT testing and verifying the results after its execution.
* Coordination with development team. Facilitating development and implementation
* Functional specifications development and review
* Functional test cases, testing. Initiate and coordinate UAT
* Prepared Software Requirement Document for the critical Business Requirements.
* Prepared Program Specification Documents for online programs, batch programs and online files (VSAM).
* Developed/Modified MQ, CICS, BMS, COBOL, JCL, SQL-DB2 programs, Copybooks and VSAM files based on Specification documents.
* Monitor the performance of Unisys applications and mainframe environments, ensuring that systems are running efficiently.
* Continuously assess and improve Agile practices within the team, fostering a culture of adaptability and responsiveness to change.
* Post deployment support and handling planned enhancements / Change

**Client: Syntel, India Jul 2010 – Mar 2012**

**Role: Web Developer**

**Responsibilities:**

* Analyzing and reporting data to the team and assisting them in making management decisions.
* Involved in fixing cross-browser issues and unit testing.
* Involved in web designing using HTML, XHTML, CSS, JavaScript and extensively used Table Less Design in CSS for positioning.
* Performed Client-Side validations using JavaScript and AngularJS and used CSS preprocessor LESS and WEB Essentials for converting LESS to CSS file during deployment.
* Developed CSS3 style sheets to give gradient effects. Developed page layouts, navigation and icons. Used D3.JS to create new nodes for incoming data and remove outgoing nodes that are no longer needed.
* Contributed and developed Servlets and JSPs based on MVC pattern using Struts and Spring Framework.
* Develop administrative and rich user interfaces with the technologies of JSP, JSF, AJAX, XSLT, JavaScript, spring and hibernate.
* Involved in front-end design using JavaScript with JSF Ajax and tag libraries.
* Improved dependency injection for modular development and component isolation using AngularJS.
* Made routing solution problems easy and extensible to solve using Angular.
* Used AngularJS for rich Used Ajax effectively to create pagination and with client-side events like quick search.
* Designated UI architecture for the internal web application and worked with designers to construct UI using React.JS
* Successfully handled JSON/XML data and carried out JSON/XML parsing for form submissions and DOM manipulation.
* Followed Agile (SCRUM) methodologies for Software Development. Coded pages with best Search Engine Optimization (SEO) techniques.
* Experience in working with Restful Web Service for RPC integration style.
* Developed Interactive GUI Screens using JavaScript, iFrame, jQuery Ajax.

**Environment:** Java Script, XML, Jelly Scripting, HTML, CSS, Ajax, REST API.