

NETHAJI KAPAVARAPU

Senior Software Engineer / Technical Architect

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SUMMARY

A Senior Software Engineer and Technical Architect with over two decades of experience in implementing cutting-edge business solutions and technology for both public-sector and private industries. Proven track record in designing and implementing efficient software applications, enhancing productivity, and reducing costs. Expert in migrating legacy applications to cloud-based solutions. Adept at coordinating with technical teams and stakeholders to manage large scale projects and deployments.

PROFESSIONAL EXPERIENCE

KYRA Solutions Inc.

Feb 2014- Present

Client: Florida Prepaid College Board

Location: Tallahassee FL – USA – Feb 2021 – *Present*

Senior Software Engineer / Technical Architect

Project: Florida Prepaid

For more than 30 years, the Florida Prepaid College Board has managed the largest and most successful prepaid program of its kind. More than 1 million families have saved for college with Florida Prepaid College Plans, and more than 561,000 students have attended college using Prepaid Plans. The Board also oversees the Morningstar medal-winning Florida 529 Savings Plan, which was recently enhanced to include even more investment options. Certainly, Mr. Tate's legacy will continue to live on through the children the program helps year after year.

The primary goal of Florida Prepaid project is to modernize and enhance using latest technology. Another goal is to implement business rules to improve data quality, CRM and Financial functions and provide robust reporting capabilities.

Responsibilities:

- Apply Object Oriented Analysis and Design concepts (OOAD) and Object-Oriented Programming concepts (OOPs) to design the architecture and development of Application
- Database Design and creating the Physical and Logical Data Model using Oracle Db Visualizer tool and creating the database tables using Toad tool
- Designed and Developed enterprise-level self-service portals for Customers, Schools, Foundation Donors, Scholarships programmatically using Salesforce CRM development tools such as Experience Cloud, LWC, Salesforce Extensions for VS Code, Salesforce CLI.
- Built custom components, apps, and processes using low-code tools for interactive development and automation.
- Managed a team of ten software engineers, fostering a culture of continuous learning and innovation that led to a 15% increase in team productivity.
- Collaborated with cross-functional teams to align technology solutions with business objectives, resulting in a 20% increase in project delivery speed.
- Involve in development of framework for the Project
- Attend daily scrum meetings to provide updates on the assigned tasks and announce road blocks if any.
- As a Salesforce Administrator Handle all basic administrative functions including user account maintenance, reports and dashboards, workflows and other routine tasks
- Expanding or refining sharing rules and access privileges so records can be properly viewed and manipulated (while keeping the "special records" locked or hidden altogether)

- Fixing data records that have somehow been set with record types or ownerships that make them inaccessible to users
- Coordinating and controlling business and application model development, maintenance and support activities

Client: Florida Department of Environmental Protection (FDEP)

Location: Tallahassee FL – USA - Mar 2019 – Feb 2021

Senior Consultant / Technical Architect

Project: AIR MONITORING VALIDATION PROGRAM (AirMVP)

The Division of Air Resource Management (DARM), Air Monitoring Validation Program (AirMVP) is designed for the collection, analysis, storage, data management and reporting of statewide ambient air quality monitoring data and information and ensuring that state and local air quality programs operating ambient air monitors in Florida meet federal requirements for network design, instrument siting and operation, and quality assurance. Also improve data quality, support data evaluation and provide robust reporting capabilities to Environmental Protection Agency (EPA).

Responsibilities:

- Design and implement solution based on architecture and business requirements. And maintain all application software on the JAVA, J2EE platform.
- Works closely with the customers, Business Analysts and team members to understand the business requirements
- Interact with REST Web Services.
- Troubleshoot issues and make system changes as needed to resolve the issue. Also recommend changes to improve established Java application processes
- Coordinating and controlling business and application model development, maintenance and support activities.
- Developing and maintaining business data/process.
- Auditing models to ensure their quality and integrity.
- Involve in development of framework for the Project.
- Used the Spring framework features like Spring IoC, Spring Autowiring, Dependency Injection.
- Develop the DAO layer for the application using Hibernate and JPA.
- Used Weblogic Server and IntelliJ IDE to develop and deploy the application.

Client: Florida Department of Environmental Protection (FDEP)

Location: Tallahassee FL – USA - Feb 2014 – Mar 2019

Senior Consultant / Technical Architect

Project: AirCom

Division of Air Resource Management, Compliance and Enforcement database application (AirCom). AirCom was designed to increase the effectiveness of DARM's compliance and inspection processes by delivering a streamlined Java based application. AirCom is a web-based application that combines the functionality of the Department's compliance assurance activities and inspection activities into a single application. Also improve data quality, support data evaluation and provide robust reporting capabilities to Environmental Protection Agency (EPA).

Responsibilities:

- Designed Class Diagrams and Sequence Diagrams
- Involved in development of framework for the Project.
- Created PDF forms for Offline inspection and generate final inspection report to upload OCULUS.
- Used the Spring framework features like Spring IoC, Spring Autowiring.
- Used Dependency Injection feature of Spring framework
- Developed the DAO layer for the application using Hibernate and JPA.
- Used Weblogic Server and IntelliJ to develop and deploy the application.
- Developing Action Classes using Struts 2 Annotations and JSP using Struts 2 Tag and JQuery

- Facilitated User Acceptance Testing (UAT), ensuring that all errors were tracked and reported to development and management teams using JIRA.
- Co-ordinated the development and testing activities while making sure deliverables conform to the requirement.
- Implementing new or changed user requirements which concern functional enhancements to the AirCom application
- Diagnosing and fixing errors, possibly ones found by AirCom users
- Increasing AirCom software maintainability or reliability to prevent problems in the future
- Modifying the application to cope with changes in the software environment

TATA Consultancy Services Ltd

June 2006 – Jan 2014

Client: Sprint Corporation

Location: Overland Park, Kansas, USA - Oct 2012 – Jan 2014

Senior Consultant / Technical Architect

Project: Connected Vehicle Platform (CVP)

Sprint Connected Vehicle Platform (CVP) is built specifically for automotive Head Units. Designed to provide the foundation for all of the connected vehicle functionality with the agility to evolve with the development of upcoming technologies. Designed to be open and flexible, it allows for integration of complex components. It offers various options and back office support like billing and care. With the use of CVP vehicle owners can access sprint CDMA radio network and various functionalities such as weather information making a voice call, listening music, Stolen Vehicle Lost Assistant, etc.

Merchant Transaction System (MTS) – Back office system application, which records all the transactions of customers from the Head Unit of their vehicles. It maintains the details of each purchase, Digital right management, App Updates etc. This is implemented in Spring RESTful MVC; it exposes various API to the applications like Care agent, Customer web portals for online purchases and Support.

Responsibilities:

- Designed and implemented a scalable software architecture for a high-traffic web application, improving system performance by 30% and user experience ratings by 20%.
- Introduced agile methodologies to the development process, reducing the product development cycle time by 25% and increasing customer satisfaction by 15%.
- Employed **spring 3.0** framework for dependency injection in the MTS module.
- Implemented the functionality of fetching data from different sources and persisted the data through **Hibernate**, to separate DAO layer from Database layer.
- Worked on tuning of back-end Oracle stored procedures using SQL Developer.
- Designed and created the database tables and wrote SQL queries, Joins, PL/SQL sub programs like stored procedures, triggers and functions to access Oracle.
- Design and Developed Owner site and Content Stocking web applications using HTML, JSP, CSS, JavaScript, jQuery, AJAX and JSON.
- Implemented Executors framework to handle multi threads in QnX environment.
- Development and maintenance of SQDF App to generate the Vehicle Health Report (VHR)
- Participate in technology/tools evaluation and software technical proof of concepts.
- Development, test and analysis of entire ECU networks and individual ECUs Using CANoe Software tool.
- Created Sequence, use case UML diagrams using Rational Rose for the modules worked on.
- Used Web Services on front end, Servlets as Front Controllers and Java Script for client side validations.
- Developed and maintained the ANT Scripts to build the APP Jars.

Client: EMC Corporation

Location: Hopkinton, MA, USA - Aug 2008 – Sep 2012

Senior Java/J2EE Developer

Project - EMC Unisphere

EMC Corporation is the world leader in information storage systems, software, networks and services, providing automated networked storage solutions that enable organizations of all sizes to better and more cost-effectively manage, protect and share their information. EMC Unisphere provides a simple, integrated experience for managing existing EMC CLARiiON, EMC Celerra and EMC VNX Family storage systems through both a storage and VMware lens.

EMC Unisphere is a web based Unified Storage management interface that lets you securely manage EMC CLARiiON, EMC Celerra and EMC VNX Family storage systems locally on the same LAN or remotely over the Internet, using a common browser. Unisphere resides on a VNX-Series or CX4 storage system that is running the Storage Management Server software, and is downloaded to the browser when the storage processor (SP) on the storage system is accessed.

Application-enabled management - Automate storage provisioning using best-practice wizards.

Task-based navigation and controls - Use an intuitive, context-based approach to configure storage, create replicas, and monitor the environment.

Customizable dashboard views and tables- Present users with valuable information automatically in context of how they manage storage.

Responsibilities:

- Worked on Storage System Domains and its Functionalities.
- Developed front end in JSPs, Servlets for various modules like, System Alerts, Dashboard and Properties of the storage objects.
- Implemented Spring 3.0 MVC framework for the development of Dashboard, System Alerts, and Modules of Unisphere.
- Developed single sign-on Login Screen for Unisphere Manager to manage CLARiiON and Celerra Systems.
- Implemented Java Persistence API for the ORM Layer of the application to persist the System alerts and Capacity information.
- Deployed applications (WAR, JAR, and EAR) in Domain and Clustered environments of WebLogic 9.2/10.
- Performed WebLogic Server administration tasks such as installing, configuring, monitoring and performance tuning.
- Implemented Unisphere Demo project for EMC Marketing team.
- Implementation of new features in the Unisphere Manager to support the latest storage concepts and Customer demands.
- Developed dashboard widgets to display storage systems information and its capacity in tabular format and Charts using Swing, Action Script, and JFreeChart.
- Developed Tree components using Swing, Flex to display Storage System Hardware Components with graphical representation.
- Responsible for creating ClearCase branches and code merging of the different releases of the project.
- Develop a solution for the bugs reported in EMC Unisphere Manager, Guiding and Mentoring Team.

Client: EMC Corporation

Location: Southborough, MA, USA - July 2006 – Aug 2008

Java Developer

Project: Navisphere Manager

EMC Navisphere Manager is a web based centralized storage-system management for configuring and managing CLARiiON® storage systems. These products provide the following basic functionality:

Discovery of CLARiiON storage systems, Status and configuration information display, Event management, Storage configuration and allocation.

Manager 6.X is a web-based user interface that lets you securely manage CLARiiON storage systems locally on the same LAN or remotely over the Internet, using a common browser. Manager 6.X resides on a CX-Series or FC4700-Series storage system that is running the Storage Management Server software, and is downloaded to the browser when the storage processor (SP) on the storage system is accessed

Responsibilities:

- Developed Mirror View, SanCopy, SnapView features in Navisphere Manager.
- Developed various Storage features using J2EE technologies. Developed front end screens using JSPs and Struts action classes and developed the DAOs and EJB components that were necessary. The application was developed leveraging the Business Delegate and Service Locator Design Patterns.
- Developed UI Tree components using Swing to display Storage System Hardware Components with graphical representation.
- Worked on Storage System Domains and its Functionalities.
- Developed UI dashboard widgets to display storage systems information and its capacity in tabular format and chart representation.
- Worked on various components Dialogs and Frames.
- Implementation of new features in the Navisphere Manager to support the latest storage concepts and Customer demands.
- Develop a solution for the bugs reported in EMC Navisphere Manager, Guiding and Mentoring Team.
- Prepared Business Test Cases and System Level Test Cases.
- Involved in System Integration Testing and bug fixing.

Smart IT Solutions**July 04 – Jun 06****Location: Bangalore, INDIA****Java Developer**

Project: Smart Manufacturing

Manufacturing Resource Planning (MRP II) is a method for the effective planning of all resources of a manufacturing company. It starts with from Organization setup, which includes Costing, TAX Payment, Material Stock, Component Stock and Bill Of Material. MRP II offers a controlled In-House flow of material and Components with Automatic Stock Updates at Every Purchases. The Next phase of MRP II is the Production Processes which can be In-House or outside Production. In both cases it handles the flow of goods updating the stock at each transactions. Production Processes is also Linked to Costing and Accounting for making INVOICES. MRP II provides an approach to managerial planning, execution, and control of productive activity. Output from various MRP II functions is usually integrated with financial reports such as the business plan, purchase commitment report, annual budget and most important planning the Production Processes as per company's Fixed Assets and Capital Investment on Machines etc.

Responsibilities:

- Worked on Bill of Materials module and developed User interface components.
- Development of forms using Forte (Swing) for GUI and JDBC for database operations.
- Worked on various UI custom components.
- Perform Database Operations to display data in table format.
- Perform Unit testing and fix defects.

EDUCATION

Bachelor of Technology in Computer Science and Information Technology
Jawaharlal Nehru Technological University, Hyderabad, INDIA, Aug 2000 – Apr 2004

SKILLS

- Programming Languages: J2EE, JSP, Servlets, Swing, JDBC, WebServices, JPA, JMS, Spring, Hibernate, Struts.
- Cloud Technologies: Salesforce.com, Experience Cloud, Financial Services Cloud, Service Cloud, APEX, Lightning Web Components, Visualforce Pages, JavaScript
- Web Technologies: React.js, Node.js, Angular, RESTful APIs
- Databases: MySQL, Oracle, MS SQL Server 2000
- Development Tools & Practices: Git, Jenkins, Agile Methodologies, CI/CD, Azure DevOps, Maven, TOAD
- DevOps & Collaboration: Jenkins, GIT, Agile Methodologies, JIRA, CI/CD pipelines, Azure DevOps, Maven, ANT
- Agile Software Development
- Demonstrated leadership and team management
- Project management and analytical skills
- Mentorship experience, guiding junior engineers

CERTIFICATIONS

- Project Management Professional (PMP)
- PMI Agile Certified Practitioner (PMI-ACP)
- Salesforce Certified AI Associate
- Salesforce Certified AI Specialist
- Salesforce Certified Administrator
- Salesforce Certified Platform Developer 1
- Salesforce Certified Experience Cloud Consultant
- Oracle Certified Professional, Java EE 7 Application Developer
- Certified ScrumMaster (CSM)
- Storage Technology foundations (STF)

PATENT

Dynamic graphical display of components in a data storage
US 9148349 · Issued Sep 29, 2015

In a storage system management device, a method for graphically displaying a component of a data storage system. The method includes mapping, by the storage system management device, each component of a set of components of the data storage system to at least one graphical image of the component, displaying, by the storage system management device, a tree table of the set of components of the data storage system, and outputting, by the storage system management device, at least one graphical image of a component of the set of components selected from the tree table.

PROFESSIONAL AFFILIATIONS

- IAEME Fellow Membership
- IEEE (Institute of Electrical and Electronics Engineers)
- Project Management Institute (PMI)

Volunteering

- Mentor / Salesforce Consultant at The Mentoring Club