

## BALA RAMAN

8 Gateway Ave, Iselin, NJ 08830, Phone: 732-692-3475, Email: [srbala@gmail.com](mailto:srbala@gmail.com)

---

### PROFESSIONAL SUMMARY

- o Worked for more than 15 years in the software development plan, design, implementation, production support, and managing projects.
- o Experience in working part of a distributed team or working independently
- o Work as application lead and work multiple projects in parallel
- o Designed and implemented Microservice REST services using Java, Spring, and Python
- o Created Microservices using Spring Boot, Apache Kafka, Django, and Flask
- o Adhoc reports created using JasperReports, Birt, JXLS, and XDocReport
- o Passionate in SQL optimizations, created and maintained hundreds of stored procedures. Some optimizations give a 6000% performance boost to the database queries.
- o Created interactive high-performance UI using JavaScript projects like Angular, React, Vue, JQuery and lodash, etc.
- o Familiar in using dynamic CSS templates SCSS, LCSS for application themes.
- o Power-user of GitHub, using it for personal, Open Source, and official projects. Effectively use GitHub workflow for automation and project management features.
- o GitHub profile <https://github.com/srbala/>, contribution list, <https://github.com/issues?q=author%3Asrbala+archived%3Afalse+>
- o Created reusable python and JavaScript packages used by teams and shared with others
- o Experience in creating custom Dockerfiles for application deployment in any cloud platforms like AWS, Azure, Google, and OpenShift. Implemented On-Premise OpenShift.
- o Made custom utility python and shell script for daily development and support use.
- o Worked closely with business application owners and end-users, transformed requirements into
- o Implemented Centralized enterprise Maven repository for application dependency management and GitHub integrated automated builds
- o Created enterprise mobile for employee and attorney use. Mobile apps developed using Ionic framework front end, MongoDB, Python backend.

### TECHNICAL SKILLS

ArEA	SKILL
Java/JEE	Java, JEE, Spring, Spring-Boot, Spring-Cloud, JSF, Servlet, EJB
Python	Django framework, Flask, Ploty.py, Dash
Cloud Tools	Docker, podman, Kubernetes, OpenShift
JavaScript	Angular, ReactJS, VueJS, JQuery, ChartJS, ExpressJS, underscore
JS Tools	Node, NPM, Webpack, Babel, jasmine, jest
RDBMS	DB2, MSSQL, MySQL, Oracle, PostgreSQL, Derby, HSqlDB, H2
SQL	SQL (DDL, DML, and DCL) / Stored Procedures
Mainframe	OS390, z/OS, IBM JCL, ISPF/TSO, COBOL, CICS, SPUFI, QMF, SyncSort, VSAM, IDMS (DB-LRF/ADSO)
IDE Tools	IBM RSA, Netbeans, Eclipse, Visual Code, IntelliJIDEA
Build Tools	Maven, Gradle, Jenkins, GitHub WorkFlow, Travis CI, and GitLab
Reports	Birt, JasperReports, Tableau, XDocReport, and JXLS
SCM Tools	Git, CVS, SVN and Microsoft TFS

## OPEN SOURCE PROJECTS

- Active member of AlmaLinux team, Lead of Docker/Cloud container images, Windows WSL and Live Media.
- Contributed to AdoptOpenJDK-containers, PrimeFaces, dynamic reports

## EMPLOYMENT HISTORY

Employer:	<b>State of New Jersey, NJ, USA</b>	July 2006 - Present
Title:	Lead Enterprise Architect/Senior IT Analyst	
<b>Responsibilities:</b>		
<ul style="list-style-type: none"><li>• Working closely with the Middleware team and IBM for implementing a hybrid cloud for <b>Java /JEE</b> applications. Using Docker and Kubernetes for local development. Creating automated scripts for application server installation and configuration. Integrated CI/CD process using GIT and user commit/push automation. Led Civil Dashboard initiative to build interactive dashboards using Tableau software and react UI templates. Working as lead and data engineer</li><li>• Involved in Design, programming, and implementing a number of JavaScript Web applications using <b>Angular</b> and <b>ReactJS</b> with Python Django framework-based REST services backend.</li><li>• Implemented number for <b>Microservice APIs</b> using <b>Spring</b> and <b>J2EE</b></li><li>• Create OCI complaint docker container, integrated build process using CI/CD, packaged REST APIs and UI frontends.</li><li>• Implementation of Credit Card and ACH Payment processing integration into civil case management and related financial reports and support</li><li>• As lead architect on organization, Worked on multiple projects in parallel. <b>Led and mentored multiple team members.</b><ul style="list-style-type: none"><li>o Providing development support to eCourts-Civil development, working with <b>24 developers in 4 teams</b>. The support involves the architectural design and implementation of the application.</li><li>o Implemented ACH and Credit Card processing into legacy applications to support COVID-19, Designed and implemented web application bridge.</li><li>o Lead <b>9 members</b> in ACMS CICS-DB2 conversion. Rewrite over 45 batch programs in 2 months, resulting in 900% efficiency in batch. As a result, the total batch process time was compressed drastically.</li><li>o Worked as application lead in FACTS - NJKiDS MQ interface designed the communication bridge between Judiciary and DHS, guided <b>7 members</b> team in this project.</li><li>o Lead and mentor mobile application development team members.</li><li>o Resolve day-to-day programming issues of team members to get their maximum potential results in projects.</li><li>o Track project progress and provide project status to upper management.</li><li>o Provide technical production support for mission-critical applications. Provide suggestions and documentation to developers and business users as necessary.</li><li>o Designed and implemented Judiciary Centralized printing and notification.</li></ul></li><li>• <b>Provide Production support</b> to all projects developed and maintained. Provide timely response and support to production applications. Analyze reported problems, break</li></ul>		

them into small pieces, seek the team members' help whenever necessary, and solve the issues. Tracked production issues and proposed fixes and enhancements.

- Analyzed and studied existing systems to **prepare impact and risk analysis**, severity, and **estimate the manpower hours** involved with technical skills (Project Planning).
- Geared ITO development group towards modernization and state of art technologies
  - o Designed and implemented development and test build automation.
  - o Centralized enterprise maven repository for application dependency management
  - o Version control integrated automated builds
  - o Update captcha for performance
- Lead and coordinated upgrading of WebSphere Application Server (WAS) 7.0 applications into **WAS 8.5.5** for all Judiciary web applications (65 projects); Worked as **centralized coordinator** to track status changes, provide documents to follow the changes and resolve the issues.
- **Meet with application end users**, both civil and financial group units to gather application requirements, transform requirements into design documents and review them with end-users for approval.
- Work closely with the business unit to prepare software requirement documents, application workflow documents, review application designs, application testing and help to train documents.
- Attend state-wide Court Civil and Finance division managers meetings as necessary to the project requirement.
- Lead Mobile development software procurement process and proposed software compare analysis for the organization.
- Created ad-hoc reports on request or as necessary which involved running SQL queries, analysis, research.
- CICS-DB2 conversion testing, Nightly Batch process rewrite, numerous new features, enhancements, and production support.
- Spring Boot enterprise application for Judiciary mobile apps, work as gatekeeper to provide back-end support services for administration, security, and data handling
- Redesign of existing civil asp page apps to Microservice-based web application using ReactJS
- Automated email notifications and Acrobat PDF Printing, Certified mail, regular first-class mail, and postcards generation and tracking.

Client:	<b>Phyaura LLC, FL, USA</b>	March 2005- June 2006
Project:	Phyaura Physician Support Services	
Role:	Senior Software Architect/Project Coordinator Consultant	
<b>Descriptions:</b>		
<ul style="list-style-type: none"><li>• Designed and implanted <b>Electronic Health Record Automation</b> using Open EMR.</li><li>• Customized solutions such as that, can be used for many clients as a service model.</li><li>• <b>Worked with a distributed development team</b>, located in various geographic areas.</li><li>• Used different social media concepts to conduct periodic team meetings to track project status, prepare reports and meeting summaries for management.</li></ul>		

Client:	<b>Hartford, CT, USA</b>	December 2003 – March 2005
Project:	Hartford Claim Automation System	
Role:	Senior Software Architect/Project Manager Consultant	

**Descriptions:**

- Lead and architect the conversion of proprietary claim processing application into a service-oriented model business-driven application.
- Meet with business analysts and end-users to understand existing applications, document application flow, and discuss the changes required for new enhancement. Provide them with available alternatives to get the best possible output.
- Implemented VMWare-based virtual development adheres to security and isolation.
- Followed agile development model or quick turnaround and better support
- Conduct periodic team meetings to track project status, prepare reports and meeting summary to management.

Client:	<b>RIGGS Bank NA, MD, USA</b>	Jan 2002 – November 2003
Project:	STAR / Alltel Integration sub-system	
Role:	Software Architect/ Project Leader Consultant	
<b>Descriptions:</b>		
<ul style="list-style-type: none"><li>• Meet with application end users, gather application requirements, transform requirements into design documents and review them with end-users for approval.</li><li>• Lead development team and conducted periodic team meetings to track project status, prepare report and meeting summary to management.</li><li>• Designed and Converted a number of processes from <b>IBM mainframe</b> environment to PC-based <b>Micro Focus</b> environment, which resulted in huge savings on licensing.</li><li>• Processed and automated various files from different ATM vendors processing.</li><li>• Implemented database model to provide real-time web interface using XML</li><li>• Worked on merger process with <b>PNC Bank</b> to provide the features of Trust and Estate bank accounts</li></ul>		

**OTHER DEVELOPER EXPERIENCE, 5 YEARS**

Has developer experience for eight years since the beginning; from March 1998 to Jan 2002, worked as a full-time developer in various projects. In the following list of projects, I worked as a developer analyst.

- Annexio ASP
- MaxLife @ Home automation
- MTEMC Electranet
- MTEMC Report Generation System
- Retail Store Processing System
- Credit Card Processing System
- Managed Trade Processing system
- AT & T Billing System

**EDUCATIONAL QUALIFICATION**

- **Master of Science in Information Systems** specialized in Data Management and Healthcare Information Systems from **Dakota State University**, South Dakota, USA.
- **Master of Engineering** from **Anna University**, Tamilnadu, India.
- **Bachelor of Engineering** from **National Institute of Technology**, Tamilnadu, India.

**CERTICATIONS**

- **PMI Certified Project Management Professional (PMP)** in Project Management.
- **IBM Certified Professional** in DB2 and RSA.
- **MongoDB** University-trained developer for Java and JavaScript