

RAJESHKUMAR ELUMALAI

Senior Consultant — Full-Stack Development, Cloud Infrastructure & Healthcare IT Solutions

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PROFESSIONAL SUMMARY

Senior Consultant with 19+ years of IT experience spanning full-stack application development, cloud infrastructure, big data analytics, and healthcare IT systems. Proven track record of translating client business requirements into technical architecture and delivering enterprise applications end-to-end — most recently leading the ground-up design and development of a full-scale EMR and Pharmacy platform. Combines hands-on engineering depth (Node.js/NestJS, Java, cloud, databases) with consulting-grade client engagement, requirement analysis, and solution delivery across banking, e-commerce, big data, and healthcare domains.

KEY ACHIEVEMENTS

- Architected and delivered a full-scale EMR and Pharmacy platform from the ground up — spanning patient, doctor, nurse, and health advisor workflows — covering backend, database, and cloud infrastructure.
- Built and productionized a Hadoop-based healthcare analytics pipeline (claims, pharmacy, demographic data) to generate opioid-utilization risk scores for a US healthcare client.
- Delivered global e-commerce payment features at PayPal spanning multi-currency support (RUB, ZAR, JPY, CAD), Brazil/Canada regulatory compliance, and Facebook merchant integration.
- Progressed from hands-on Software Engineer to Technical/Project Lead across four organizations, consistently owning the full arc from client requirements to production delivery.

CORE SKILLS

Backend Development: Node.js, NestJS, Java, J2EE, Spring, Spring Boot, RESTful API Design

Cloud & DevOps: AWS (EC2 Instance Management), Docker, Portainer, CI/CD, Build & Deployment Automation

Databases: MySQL, Oracle, PL/SQL, Database Design & Architecture, Data Modeling

Big Data & Analytics: Hadoop, Hive, Pig, Spark, Sqoop, Flume, HBase, Zookeeper, MapReduce

Consulting & Delivery: Requirements Gathering, Technical Documentation, Solution Architecture, Client Management, Stakeholder Communication, Agile/Scrum, Team Leadership

Domains: Healthcare IT (EMR/Pharmacy), Banking & Payments, E-Commerce, Big Data Analytics

PROFESSIONAL EXPERIENCE

Senior Consultant | Assay Clinical Research, Chennai

Feb 2019 – Present

- Leading ground-up design, architecture, and development of a full-scale Electronic Medical Records (EMR) and Pharmacy application, serving patients, doctors, nurses, and health advisors.
- Own backend development using NestJS, delivering scalable, production-grade APIs for clinical and pharmacy workflows.
- Gather and analyze requirements directly from clients and stakeholders, converting business needs into detailed technical specification and design documents.
- Design and structure the MySQL database architecture underpinning the EMR and pharmacy modules, including schema design for clinical, billing, and inventory data.
- Manage cloud infrastructure on AWS, including EC2 instance provisioning, scaling, and end-to-end lifecycle management.
- Set up and administer Portainer for containerized build and deployment pipelines, streamlining release cycles.
- Monitored installation of materials/equipment for compliance with specifications and led scheduling and prioritization across 9+ engineering projects in earlier Project Lead capacity.
- Analyzed system development efforts using ROI and associated liability/cost-benefit metrics to guide project decisions.

Technical Lead | CNSI (Client Network Services), Chennai

Aug 2014 – Feb 2019

- Led big data analytics initiatives for a US healthcare client, architecting solutions across the Hadoop ecosystem (HDFS, MapReduce, Hive, Pig, Spark, Sqoop, Flume, HBase, Zookeeper).
- Designed and delivered application defect analytics and opioid-utilization risk-scoring solutions, processing large-scale structured and unstructured healthcare claims data.
- Built a predictive risk-scoring model pipeline connecting claims, pharmacy, and demographic data to flag utilization risk factors.
- Installed, configured, and administered Cloudera Hadoop platform (CDH3/CDH4) clusters, including performance tuning and monitoring.
- Authored Pig and Hive scripts and custom UDFs for large-scale data analysis, and mentored team members on Hadoop ecosystem concepts.
- Provided secondary technical training and troubleshooting support across in-person and remote engagements.

Application Engineer / Application Delivery | PayPal, Chennai

Jun 2010 – Aug 2014

- Served as Application Delivery lead for the Digital Goods e-commerce payments platform, analyzing business requirements and converting them into technical designs and reference implementations.
- Defined high-level application design and guided the team on low-level design for major features including AB-Testing, Brazil/Canada compliance, and multi-currency support (RUB, ZAR, JPY, CAD).
- Built management dashboards analyzing centralized application logs to surface payment failure/success trends.
- Delivered the Adaptive Payments suite of APIs and web flows supporting simple, parallel, and chained payment types.
- Led code reviews, test coverage reviews, and security violation reviews across delivery cycles.

Software Engineer | Gruppo Banca Sella, Italy (Chennai-based)

Jun 2007 – Jun 2010

- Developed and delivered core banking payment systems, including Fund Transfer (Bonifici) and Remote Banking Payment Orders (PagamentiRB) applications.
- Handled requirement gathering, technical design, development, and unit testing for Java/J2EE-based banking applications.
- Implemented MVC-based web applications using JSP, EJB, and a custom framework, and managed application builds and deployments on WebLogic.

EDUCATION

MBA, International Business — Vinayaka Missions University, Salem, Tamil Nadu

B.E., Electronics and Communication Engineering — Lord Venkateshwara Engineering College, Kanchipuram, Tamil Nadu

H.S.L.C — Velammal Matriculation Higher Secondary School, Chennai

CERTIFICATIONS

Certified ScrumMaster (CSM) — 2022 | Programming HTML5 with JavaScript and CSS3 (MCSD) — 2013 | Oracle PL/SQL Developer (OCA) — 2010 | Web Component Developer (SCWCD 5) — 2010 | Java Programmer (SCJP 5.0) — 2008