Ravi Eragapati

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# Summary

Skilled Java/J2EE/Spring developer, with over 9 years of experience in software development, proven track record of innovation and project management success along with expertise in System Design and System Architecture.

Strong at data structures and algorithms. Have also taken Advance Algorithm classes during my Masters.

Extensively worked with new features in Java 8, 11 and 17 like Collections, Stream API, parallel, Process & AOP, Records, Interface-Default-methods, modern switch-case and many more.

Expertise in designing and building Web, SOAP, RESTful applications, and batch processes using Core Java, J2EE, EJB’s, JSP, JDBC, Spring and JPA Frameworks.

Experience in building front-end web applications using basic HTML5, CSS3, JavaScript, jQuery, JSP-JSTL and by using popular frontend frameworks like Angular and ReactJS.

In-depth understanding along with years of hands-on experience in the implementation of various design patterns such as Singleton, Front Controller, Prototype, DAO, Service Locator, MVC, Session Facade, Abstract Factory, Intercepting Filter, and other patterns.

Experience in Installation, setup, and configuration of on-prem Server (Database, MQ, Redis and Kafka) and Infrastructure (Jenkins, GitHub, Distributed Logging Proxies).

Experience in installation, and configuration of Ant, Maven, Gradle and other Java build tools.

Have Base knowledge in Big-Data Hadoop (Map-Reducer Framework), Data Mining from school projects.

Experience with relational databases (like Oracle, MySQL, SQL Server) and NoSQL Databases (like MongoDB, Azure Cosmos DB) with good command of query optimization, indexing and database table design.

Hands-on experience in all the popular cloud platforms (Azure, AWS, PCF and GCP).

Excellent communication, analytical and interpersonal skills, and highly motivated team player with the ability to work independently, learn and quickly adapt to emerging new technologies.

# Experience

## Senior Software Engineer

### Akkodis

Jun 2021 - Present (2 years 3 months)

Built reliable, scalable, lightweight, and secured RESTful web services using Java, Spring-boot (MVC/ web flux), utilizing both custom internal Authorization server and Azure AD OAuth2 Resource Server without compromising performance or industry standards.

Migrated Spring boot application from 2.3 to 2.7 to 3.1 and helped other teams in Ford Foundational Services organization with migration by contributing and authoring many Fords internal wiki pages/ articles.

Extensively worked on optimizing existing services code to improve response time by 2x and cloud configurations to reduce resource cost by more than 70%.

Designed, planned, executed, and successfully delivered the biggest cloud migration with zero downtime to customer within the projected timeline.

Migrated infrastructure, DBaaS, PaaS and SaaS resources from Azure cloud to Google cloud.

* Re-written and migrated 30+ Spring boot, Angular and React apps from PCF to GCP Cloud Run.
* Cleaned data and live migrated 6 Terabytes of data from Azure Cosmos DB to MongoDB Atlas.
* Migrated Kafka topics hosted on both On-Prem and Azure to Confluent Kafka.
* Migrated data and service from Azure SQL server to GCP Spanner with zero downtime using Striim CDC.
* Setup pipelines to continuously stream logs from GCP Log Explorer to Splunk using Log Router Sinks to push logs to Pub/Sub-topics, and a Dataflow pipeline to call Splunk HEC endpoint, so the teams can continue using Splunk for logging, alerts, and report.
* Seamlessly redirected traffic of each microservice from Azure APIM gateway (PCF apps) to Google APIGEE (Cloud Run) by working closely with Network team to write redirect rules without disrupting upstream and downstream service operations.

Worked on JVM tuning, analyzing thread and heap dumps, HTTP/TCP and database connections, socket issues, finding root cause for underlaying performance issue, deadlocks and resolved them to improve performance up-to 200% in some cases.

## Senior Software Developer

### CAYS Inc.

Apr 2017 - May 2021 (4 years 2 months)

Requirements gathering, analysis, design, development, testing and releasing the application per the guidelines and schedules stated in the Software Development Lifecycle (SDLC) document created for each project.

Build and support both legacy and latest front-end web portals written using HTML4/5, JavaScript, JSP, JSTL, CSS, jQuery and Angular.

Develop backend EJB Session beans, RESTful service to support front-end requests using Java, J2EE, EJB2.1 (legacy) and EJB3 and complete the integration with front-end.

Building SOAP services using JAX-RPC and JAX-WS specifications for online processing of application forms and intercommunication across multiple state and federal systems.

Writing new and enhancing existing batch jobs for performance and incorporating new business policy changes for bulk processing.

Modernized legacy applications that are written using EJB2.1 and JAX-RPC to EJB 3 and JAX-WS.

Migrating legacy monolith Java EJB application to smaller manageable Spring boot microservices while refactoring code to support the latest JDK 11 features.

Review daily batch and online execution reports to identify exceptions. Report the exceptions to the team manager to streamline the development of solutions to the exceptions.

Anticipate the impact that new or modified software will have on existing standards and systems and make any recommendations as needed.

Discuss requirements with end users and provide software suggestions and recommendations to users to help them understand potential limitations and challenges.

Analyzing JVM thread, heap and crash dump generated by failed batch processes and apply code or configuration fixes.

Running functional, unit, integration, regression, and load performance tests as applicable as part of the quality assurance for each major fix/release.

Assist the QAT and UAT team during the preparation and execution of the acceptance test. Lead, mentor and assist two team of size 3 and 11, tracking and reporting progress.

## Software Engineer

### SRK Systems Inc

Aug 2016 - Apr 2017 (9 months)

## Graduate Tutor for JAVA and Systems Admin

### Roosevelt University

Jan 2015 - May 2016 (1 year 5 months)

## Jr. Developer

### Alaric web technologies, India

May 2013 - Dec 2014 (1 year 8 months)

# Education

## Roosevelt University

### Master's degree, Computer Science

2015 - 2016

## JNTUH College of Engineering Hyderabad

### Bachelor's degree, Computer Science

### 2009 - 2013

# Licenses & Certifications

## Architecting with Google Kubernetes Engine: Foundations - Coursera

JH95VLR4PAM8

## Essential Google Cloud Infrastructure: Core Services - Coursera

XHXUAR8LCYCS

## Elastic Google Cloud Infrastructure: Scaling and Automation - Coursera

FA2WT2CTLRPD

## Essential Google Cloud Infrastructure: Foundation - Coursera

6L6H9Y9RP6KA

## Google Cloud Fundamentals: Core Infrastructure - Coursera

45AUVFDLWERE

# Skills

• Java (8/11/17) • J2EE/JSP/JSTL • Spring Boot (2.x/3.x) • EJB (2.x, 3.x) • Message-Driven Beans • Hibernate • TDD/Junit (4/5) • SQL DB (Oracle/MySQL) • NOSQL DB • PL/SQL • Python • HTML (4/5) • JavaScript • CSS • TypeScript • NodeJS • JAX-RPC • JAX-WS • JAX-RS • Quartz scheduler • Microsoft Azure (Virtual Machines, SQL Server DB, Cosmos DB, Notification Hub, Azure Active Directories, Cache for Redis, Storage accounts) • Google Cloud Platform (GCP- Cloud Run, Cloud Functions, Spanner, Redis, Ubuntu Virtual Machines, Secret Manager, Pub-Sub, Dataflows) • Amazon Web Services (AWS) • Pivotal Cloud Foundry (PCF) • MongoDB Atlas Cloud • Confluent Kafka cloud • Terraform • Angular • ReactJS • Design Patterns • Data Structures • Algorithms • IBM WebSphere • IBM Liberty • IBM MQ Server • Apache Kafka • Atlassian tools (Jira/Jama/Bitbucket/Bamboo/Fisheye/Crucible) • IBM RAD • Eclipse • MS Visual Code • IntelliJ IDEA • Jenkins • GitHub • Waterfall • Agile • Iterative • Microservices • Monolithic • Hybrid System Design Architecture • Splunk • Dynatrace • AppDynamics • 42Crunch • Checkmarks • Gradle • Maven • Ant • SonarQube • JWT • MacOS • Windows • Linux

# Activities

# • Photography • Travel • Cooking • Reading

**Full Name: Kumara Ravi Kanth Eragapati**

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