**Chandrashekar**

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**Qualifications Summary:**

Versatile Senior Java Solution Architect with expertise in all facets of software engineering, solutions implementation, project management, and the software development lifecycle (SDLC). Proven record of leading complex projects for major industry clients and delivering effective distributed solutions that are scalable and elevate the user experience, while aligning with business requirements. Champion of high-performance, cross-functional teams.

* Executed over 17+ strategic projects from conceptualization to completion.
* Collaborated with and delivered exceptional projects for major industry leading clients such as: Adobe, Apple, Cisco Systems, Farmers Insurance, General Motors, TransUnion, and TWACS (Aclara).
* Over 10+ years of expertise with CSS, HTML, JSP, Java, JDBC, React, Shell, Script, Servlet, Tomcat Application Server, WebSphere, WebSphere Application Server, XML, and XSLT.
* Configured 50+ CI/CD implementations utilizing the customized pipeline templates generated by the Kubernetes engineering team.
* Documented Current State and Target state architecture, capacity planning, performance requirement, storage requirements and network design to integrate with Enterprise applications and SAAS application.
* Developed High level and low-level Design using UML diagrams.
* Developed RESTful Microservices in java, Spring boot.
* Developed and executed test procedures for the software components using Junit
* Developed 200+ unit tests to verify functionality of rest services for backend integration like SAP, Oracle Financial, Oracle Manufacturing and relational database like IBM DB2, Oracle database and MY SQL Database
* Integrated Azure AD, Elastic Search
* Developed code following security practices and design patterns.

**Area of Expertise:**

* Design and implement **microservices architecture** and **serverless architectures**.
* Develop **API gateways** to route incoming traffic to the appropriate microservices.
* Implement **API security**, including authentication, authorization, and OAuth2 using JWT.
* Use **DevOps tools** like Jenkins, Docker, Kubernetes, and Ansible for CI/CD pipelines.
* Implement **automated testing** at unit, integration, and functional levels.
* Use **monitoring tools** like Prometheus and Grafana to monitor the health of applications and troubleshoot issues.
* Hands on experience in developing REST API
* Data Structure Experience
* Have Strong exp in Spring and Spring Boot
* I have used Broadcom API gateway and Adobe Gateway
* Experience in designing UML diagrams using Rational Rose and Microsoft Visio
* Proficiency in core java concepts like Thread, Exception Handling, Collections, Functional Interface, Lambda, JDBC,
* Played a pivotal role as a part of scrum team accountable, developing new application using Spring Framework
* Extensive experience in designing and developing web enterprise applications on Spring IOC/Dependency injection, and all Spring modules, Hibernate.
* Integration with NoSQL db – MongoDB and Relational database like IBM db2 and Mysql
* Large scale enterprise Applications Development and Delivery
* Agile Methodology
* Cross-Functional Team Leadership
* Model View Controller Architecture
* Event Driven Microservices Architecture
* Technical Design, Test Plans & Implementation
* Full Stack Software Engineering
* Cloud-Based Technology & Integration
* Supervision / Training / Mentoring
* Technical Troubleshooting & Debugging

**Technical Proficiencies:**

* Java, React, JSON, JSP, SQL, Spring
* HTML, CSS, XML, XSLT, JavaScript
* Unix, Script, Shell, WebSphere
* WebSphere Application Server
* Tomcat Application Server
* SOA, REST, Web-Services, Maven, J2EE technologies, Spring, Hibernate,
* MongoDB
* Familiar with Cassandra

**Professional Experience**

**Role: Java Architect/Solution Architect**

**Client: Adobe April 2019 – Present**

**Location: San Jose, CA**

**Responsibilities:**

* Extensive experience in designing and developing multi-tier web applications.
* Extensively worked with MVC architecture using spring, hibernate.
* Served as Platform Subject Matter Expert (SME) for the Common Account Management project across Adobe CRM systems. Collaborated with stakeholders and product managers to define Business Vision, requirements, and scope.
  + Established the technology reference architecture, associated processes, and guidance for industry best technology.
  + Expertise in Object Oriented Analysis, Design/Development methodologies
  + Prepared the technical design document for presentation tier and middle Service tier using use cases, sequence diagram and class diagram using UML
  + Outlined cloud implementation roadmap via event-driven architecture using Kafka
  + Setup CI/CD platform for microservices development on Kubernetes v1.25
  + Adobe’s Jenkin Framework was applied for non-prod and production deployment.
  + Created docker containers to deploy on Kubernetes
  + Worked with Kubernetes, network and security team to integrate with database on private as well as public cloud
  + Integrated Mongo DB databases with 100+ account registration microservices
  + Integrated with LDAP and Azure AD with Spring Boot REST microservices controller.
  + Integrated with Elastic Search, create search index and expose API based on defined rules.
  + Integrated with Hashicorp vault, GitHub, Artifactory maven repository.
  + Integration Azure Container registry
  + Integrated log4j logs with Splunk using fluent bit.
  + Partnered with IT to track compliance to cloud policies.
  + Monitored application, database, and network performance, while ensuring data, network, and system availability and integrity.
  + Developed accelerators to create Kubernetes manifest file to onboard spring boot microservices.
  + Enhanced the quality of code and improved application performance.
  + Develop Unit, integration Testing Frameworks, Test Suites, using JUnit, to thoroughly test the software applications for all possible positive and negative use case scenarios and achieve 100% code coverage.
  + Developed application using Eclipse IDE
* Developed rule customization application for the elastic search using ReactJS and Axios api to call microservices.
* Served as Platform SME and Java Solution Architect for the Self-Service Model project that onboarded on-premises API services on the iPAAS platform for Adobe. Designed a new Java-based framework supporting new API security policies, meeting, configuration, usage threshold management, and user requests.
  + Slashed API onboarding time from 5 weeks to 1 day.
  + Enabled portal front-end for API gateway that onboarded 500 rest services and self-provisioning library that onboarded 300 rest services.
  + Delivered hybrid integration with IBM Cloud, Salesforce, and apps like Dynamic CRM on Azure and MS Graph Directory using Azure APIs.
  + Completed an Online Order Processing (Global Services) project for Apple.
* Created validation java classes to standardize authentication.

**Technologies**: Broadcom API Gateway, Docker, Eclipse, Java 8, Kafka, Kubernetes, Mongo DB Database, Postman, React, JavaScript, Spring Boot 3.1.5, Hibernate, Swagger, Tomcat Server, XML, Elastic Cloud

**Role: Java Architect/Solution Architect**

**Client: Apple Jun 2018 – Mar 2019**

**Location: San Jose, CA**

**Project: OPSU – Online Order Processing Global Service Unit**

**Responsibilities:**

* + Worked closely with the product teams to define and prioritize feature requests of improving OPSU - Online Order Processing Global Service Unit.
  + Assess the QA automation capabilities and recommend the improvement and the new features.
  + Led the evaluation of tools and technologies for the remote Apple Products demonstration capabilities and online support for iphone, ipad and Apple Mac
  + Monitor the QA of the new version of OS on iphone, ipad and Apple Mac
  + Design and implement microservices architecture for the OPSU using tools like Spring Boot and Docker.
  + Develop RESTful APIs for the OPSU using Java and Spring Boot.
  + Manage and optimize databases using SQL and NoSQL databases like MySQL and MongoDB.
  + Implement DevOps practices using tools like Jenkins, Docker, and Kubernetes.
  + Implement automated testing for the OPSU using tools like JUnit and Selenium.
  + Monitor the performance of the OPSU using tools like Prometheus and Grafana.
  + Ensure the security compliance of the OPSU using tools like OWASP ZAP and SonarQube.
  + Deploy the OPSU on cloud platforms.
  + Implement CI/CD pipelines for the OPSU using Jenkins or Travis CI.
  + Use version control systems like Git for source code management.
  + Ensure code quality using static code analysis tools like SonarQube.
  + Use agile methodologies like Scrum or Kanban for software development.
  + Evaluate and implement tools for remote demonstration of Apple products.
  + Monitor the quality assurance of new OS versions on Apple devices.
  + Collaborate with IT managers and project portfolio management teams to develop high-level and detailed architecture using tools like Microsoft Teams or Slack.

**Role: Java Architect / Solution Architect**

**Client: Adobe April 2015 – Apr 2018**

**Location: San Jose, CA**

**Project: Integration Platform as a service**

**Responsibilities:**

* Develop self-provisioning capability to onboard publisher API
* Support DevOPS process for Dev, stage, QA, UAT and prod deployment
* Support Root cause analysis and troubleshoot issues for Critical Service Outages
* Support the “Run the Business” activities like security compliance, DB maintenance and optimization, open-source upgrades etcs
* Collaborated with IT managers and project portfolio management team and developed high level and details architecture.
* Design and implement microservices architecture and serverless architectures.
* Develop API gateways to route incoming traffic to the appropriate microservices.
* Implement API security, including authentication, authorization, and OAuth2 using JWT.
* Use DevOps tools like Jenkins, Docker, Kubernetes, and Ansible for CI/CD pipelines.
* Implement automated testing at unit, integration, and functional levels.
* Use monitoring tools like Prometheus and Grafana to monitor the health of applications and troubleshoot issues.
* Implement database solutions using SQL and NoSQL databases. Optimize database performance and plan for capacity.
* Ensure code quality by implementing best practices and using code quality measurement tools.
* Develop proof of concepts (POCs) for new technologies and present their benefits and drawbacks.
* Use project management tools like Jira or Trello to track work progress.
* Implement performance tuning of applications and databases.
* Ensure disaster recovery and business continuity by implementing appropriate strategies.
* Use message brokers like Kafka or RabbitMQ for asynchronous communication.
* Implement caching using tools like Redis or Memcached to improve performance.
* Use API documentation tools like Swagger for documenting APIs.

**Role: Java Architect/Solution Architect**

**Client: HP Apr 2014 – Apr 2015**

**Location: San Jose, CA**

**Project: CA API Manager Migration**

**Responsibilities:**

* Design and implement integration strategies for B2B cloud platforms such as HP Cloud and IBM Cloud using Java and Spring Boot.
* Develop secure integration solutions for HP enterprise applications following the guidance of the Cyber Security team, using security frameworks like Spring Security.
* Manage and resolve high-priority (P1/P2) issues, ensuring minimal disruption to business operations, using incident management tools like Jira Service Management.
* Integrate new security services like Ping Federate, Site Minder, and enterprise LDAP into existing systems using Java and LDAP APIs.
* Collaborate with the Cyber Security team to ensure all integrations adhere to security best practices and company policies, using security tools like OWASP ZAP.
* Work closely with the SaaS providers to ensure seamless integration and optimal performance of SaaS applications, using integration platforms like MuleSoft.
* Develop and implement mobile application integration strategies, ensuring a seamless user experience across platforms, using mobile development frameworks like React Native.
* Conduct regular security audits of all integrations to identify and address potential security vulnerabilities, using security tools like Nessus.
* Collaborate with cross-functional teams to define and prioritize feature requests and improvements for integrations, using project management tools like Jira.
* Develop and maintain detailed documentation of all integrations, including design decisions and configuration details, using documentation tools like Confluence.
* Lead the evaluation and selection of cloud and integration tools and technologies, staying up to date with the latest industry trends.
* Develop and implement a comprehensive monitoring and alerting system for all integrations, using monitoring tools like Prometheus and Grafana.
* Collaborate with the QA team to develop and implement a comprehensive testing strategy for all integrations, using testing frameworks like JUnit and Mockito.
* Provide technical leadership and guidance to junior developers and engineers, promoting a culture of continuous learning and improvement.
* Stay up to date with the latest industry trends and technologies in cloud computing and integration, attending relevant conferences and webinars.
* Develop and implement a comprehensive disaster recovery and business continuity plan for all integrations, using cloud services like AWS Disaster Recovery.
* Collaborate with the IT operations team to ensure all integrations are reliable and performant, using performance monitoring tools like New Relic.
* Conduct regular performance tuning and optimization of all integrations, using performance profiling tools like JProfiler.
* Develop and implement a comprehensive training program for other team members on integration best practices and technologies, using learning management systems like Moodle.
* Collaborate with the customer support team to resolve any integration-related issues reported by customers, using customer support tools like Zendesk.

**Role: Java Architect / Solution Architect**

**Client: Cisco Oct 2009 – Mar 2014**

**Location: San Jose, CA**

**Project: Business Event Management Service Platform As-A-Service ( PAAS )**

**Responsibilities:**

Administered full life cycle IT project management of solutions architecture initiatives for a major client: Cisco Systems, with emphasis on optimizing the Business Event Management Service Platform-As-A-Service (PAAS).

* Served as Java Integration Architect Consultant for the Business Event Management Service Gateway project. Tasked to develop future forward B2B capabilities and functions that presented real-time data on use cases, including track, trace, sense, response, and overall situational awareness.
  + The Gateway comprised of 4 components:
  + Event Capture, Event Processing, Event Publishing, Messaging Queue Middleware
  + Implemented inbound/outbound channels using messaging middleware.
  + Processed inbound/outbound data in XML and used DOM Parser in Java to parse XML messages.
  + Captured events for order fulfillment in integration with Cisco ERP and Output Adapter (messaging queue).
  + Tracked business events with unique IDs and stored XML payload in Oracle tables.
  + Developed the dashboard that utilized the DOJO toolkit to render situational awareness and manage use cases.
* Trusted advisor during critical and intense IT change initiatives and transitions.

**Technologies**: Dojo, Eclipse, HTML, Java, Mongo DB, Tomcat Server

**Role: Java Architect / Solution Architect**

**Client: Farmers Insurance Feb 2006 – Mar 2008**

**Client: General Motors Jul 2005 – Jan 2006**

**Client: Transunion Mar 2005 – Jun 2005**

**Clients: TWACS, Safeway, Kaiser, WellPoint. Oct 2000 – Feb 2005**

**Location: Cupertino, CA**

**Projects:**

* **SOA enablement for the Worker Compensation LOB**
* **Solution Architecture for the SOA-based property and casualty claims.**
* **Impact Analysis for introducing an Annual Auto insurance Policy.**
* **Process Improvement for the MIPS Consumption.**
* **Enterprise Architecture to integrate the globally distributed vehicle testing units.**
* **IT readiness assessment for a Credit reporting agency**

**Responsibilities:**

Proactive leader of IT strategy and architecture for globally recognized clients: Farmers Insurance, General Motors (GM), TransUnion, Wellpoint, Kaiser, Safeway and TWACS (aka Aclara).

* Conducted an IT readiness assessment for TransUnion.
  + Identified $3M in monthly losses that were submitted to improve system downtime.
* Provided the solution architecture for SOA-based property and casualty claims, as well as worker compensation LOB for Farmers Insurance.
  + Boosted insurance revenues by $15M.
  + Delivered enterprise architecture to facilitate integration of globally distributed vehicle testing units for GM.
  + Served as Java Application Architect to develop web portal using IBM Websphere technology for Wellpoint. This was full stack development project with integration with HTML, CSS, JSP, and J2EE technology on IBM WebSphere
  + Served as Java Integration Architect Consultant on the Automatic Meter Reading (AMR) project for Aclara. Instrumental contributor in the next-gen product development of a near real-time information collection system (smart meter) for the utility industry from data compiled from the federal control system.
  + Architected the structure that supported approximately 60M transactions daily.
  + Collected data using distributed compute nodes integrated with smart meter devices. Saved data in the Oracles database and implemented smart instruction as microservices.
  + Developed microservices using Java servlet framework, creating JUnit tests for each microservice.

**Technologies**: Java, Oracle Application Server, Oracle Database

**Education**:

Bachelor of Engineering in Computer Science & Technology, Pune University - 1997