**RAGHU VENKATACHALAPATHY**

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SENIOR JAVA DEVELOPER

Senior Developer with extensive experience in Java and Spring Boot, adept at designing and developing scalable, enterprise-grade applications for complex business domains. Extensive experience in microservices, CI/CD pipeline management, and agile methodologies. Skilled at leading and mentoring development teams to deliver customer-focused, high-quality solutions aligned with business objectives. Known for problem-solving and strong communication skills that bridge technical and non-technical stakeholders effectively.

**Technical Expertise**

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| --- | --- |
| **Operating System** | Windows, Unix, Linux |
| **Languages and Technologies** | Java, Spring, Spring Boot, Spring WebFlux, RESTFul Webservices, JPA, Hibernate, EJB, JDBC, Servlets, Swing, Groovy, Python, Junit |
| **Web Technologies** | HTML, CSS, JavaScript, Ajax, Primefaces, DHTML, JSP, JSF |
| **Development Tools** | Java 17/11/8/7, Eclipse, IntelliJ, GIT, SVN, CVS, Gradle, Maven, Ant |
| **Application Servers** | JBOSS EAP 6.4, Tomcat 6, IBM WebSphere |
| **Databases** | MySQL, Postgres, Oracle, SQL, PL/SQL, Knowledge Graph |
| **Protocols** | TCP/IP, HTTP, HTTPS |
| **Build and Design Tools** | Jenkins, SonarQube, OOAD (UML), MS Visio |
| **Cloud** | AWS, Azure |
| **Scripting Languages** | Unix Bash, Powershell, groovy scripts |
| **Other Tools** | JIRA, Confluence, JIRA Service desk |
| Containerization and Orchestration Technologies | Kubernetes, Docker |

**Career Snapshot**

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| --- | --- | --- |
| **Position** | **Organization** | **Period** |
| Senior/Lead Developer | Macquarie Bank | Jul 2024 - Till Date |
| Lead Java Developer | Capsifi | Aug 2021 – Mar 2024 |
| Senior Java Developer | Booktopia | Jun 2011 - Aug 2021 |
| Senior Java Developer | Fox Sports | Nov 2010 - May 2011 |
| Java Developer | Office of State Revenue | May 2010 - Sep 2010 |
| Java Developer | Telstra | Jan 2009 - Feb 2010 |
| Java Developer | Ericson Managed Services | May 2007 - Nov 2008 |

**Career Experience & Highlights**

**Macquarie Bank Jul 2024 – Till Date**

**Lead/Senior Java Developer**

**Projects: Surveillance System Replacement**

**Key Responsibilities:**

* Led the analysis, design, and architecture of solutions in collaboration with stakeholders, ensuring timely delivery of project milestones.
* Reviewed architectural decisions with solution architects and implemented scalable and efficient solutions.
* Analyzed Elasticsearch indices and designed advanced querying techniques to optimize JSON extraction for alert migration.
* Architected and implemented an alert migration application by mastering Python quickly, resolving version conflicts, and migrating closed alerts to WORM storage.
* Enhanced CI/CD pipelines by diagnosing and resolving Bamboo integration issues with Python agents, while leveraging AWS CloudFormation to provision infrastructure seamlessly.

**Technology:**

* **Languages & Frameworks:** Java, Python, Vue.js, AWS Lambda, Apache Airflow
* **Containerization & Orchestration:** Docker, Kubernetes, Amazon EKS
* **Version Control & CI/CD:** Git, Stash for version control, and integrated Blackbuck with Bamboo CI/CD pipelines for continuous integration and delivery, maintaining high code quality.
* **Cloud Services:** AWS (Lambda, EKS, S3, SQS), Elasticsearch Index
* **Other Technologies:** Single Page Applications (Vue.js), Linux, Git

**Capsifi Aug 2021 – Mar 2024**

**Lead Java Developer**

**Projects: Jalapeno 1, Capsifi 2.0**

**Key Responsibilities:**

* Led the transformation of monolithic application from Scala's Play Framework to a more scalable and maintainable microservices architecture, significantly improving system flexibility.
* Design and development of RESTful API, enabling seamless interaction between the frontend platform and third-party services.
* Implementation of OpenAPI specifications, facilitating the automatic generation of comprehensive Swagger documentation.
* Engaged in developing and implementing comprehensive error-handling methodologies tailored for a microservices environment.
* Implemented a centralized configuration server utilizing GitHub to manage and streamline configuration settings across services, ensuring enhanced operational efficiency and consistency.
* Development of reactive services using Spring Webflux, optimizing system responsiveness and performance.
* Led the integration of the application with Keycloak for authentication, alongside interfacing with various third-party APIs.
* Independently established the project's microservices foundation, including setting up an API gateway, Eureka server, authentication/authorization server (Keycloak), and Spring Cloud Config, laying the groundwork for resilient architecture.
* Developed the DAO layer for communication with the NoSQL Knowledge Graph database using Spring's SnarlTemplate.
* Utilized Gradle to build Docker images and crafted deployment files, enabling the seamless deployment of all microservices onto the Kubernetes cluster, along with the setup of secret configurations within Kubernetes.
* Written python and shell scripts to automate tasks and also efficiently manage Kubernetes clusters, ensuring seamless deployment and operations.
* Work closely with DevOps to establish CI/CD pipelines using Jenkins, ensuring streamlined automation for building, testing, and deploying applications.
* Conducted thorough code reviews to maintain high-quality standards in software development and deployment.
* Quickly mastered the Scala framework and Typescript frontend, contributing to the project's success with minimal ramp-up time.

**Achievements:**

* **Successful Transition to Microservices:** Played a pivotal role in Capsifi's strategic move towards a microservices architecture, significantly improving the system's flexibility and ability to scale.
* **Leadership and Team Development:** Enhanced team productivity and project delivery efficiency through effective leadership, mentorship, and implementing agile methodologies.
* **Deployment Strategies:** Ensured high availability and seamless customer experiences by deploying new microservices only after successful health checks, eliminating visible downtime.

**Technology:**

* **Languages & Frameworks:** Specialized in Java 11, Scala, Spring Framework, Spring Boot, Spring WebFlux, JUnit, Mockito for the development of scalable and efficient microservices.
* **Containerization & Orchestration:** Utilized Docker and Kubernetes for the containerization and orchestration of microservices, ensuring robust deployment strategies.
* **Version Control & CI/CD:** Git, GitHub for version control, and integrated SonarQube with Jenkins CI/CD pipelines for continuous integration and delivery, maintaining high code quality.
* **Logging, Messaging & Caching:** Implemented ELK Stack for logging, Apache Kafka for messaging, and Hazelcast for distributed caching, optimizing application performance and reliability.

**Booktopia Jun 2011 – Aug 2024**

**Lead/Senior Java Developer**

**Projects:   
Booktopia website enhancements, Booktopia CMS, Warehouse Management System, EZWebservice, Promotion Rules Development & Support Management**

**Key Responsibilities:**  • Maintained and enhanced the Booktopia website.  
  • Architected and developed an in‑house CMS using Java (JSF, Spring, JPA).  
  • Developed a RESTful web service for Android UI integration.  
  • Implemented event‑driven processing with AWS Lambda and SQS.  
  • Collaborated with stakeholders and led team efforts in an Agile environment.

**Achievements:**  • Enhanced user experience with a lazy load solution.  
  • Improved CMS performance by 20% through targeted optimizations.  
  • Reduced operational costs by integrating support and development roles.

**Technology:  
Java, Spring, JSF, JPA,JBoss, AWS (Lambda, S3, CloudFormation), Docker, Unix, Agile methodologies**

**Fox Sports Nov 2010 – May 2011**

**Senior Analyst/Developer – Java**

* Led development of Emerald Application’s central sports database using Spring services and DAO layers for complex query handling.
* Collaborated with business, UX/UI, and testing teams to ensure timely, high-quality project delivery across Unix environments.
* Reduced production costs through rigorous performance testing and early project completion.

**Office of State Revenue May 2010 – Sep 2010**

**Java Developer**

* Developed the "Further Reps" queue functionality through full-stack development using JSF, EJB 3.0, and JPA with Oracle.
* Enhanced application features by modifying stateless EJBs, designing user interfaces in JSF, and implementing PL/SQL procedures and triggers for audit reporting.
* Crafted detailed test plans and demonstrated functionality to business stakeholders, ensuring robust performance and timely delivery.

**Telstra Jan 2009 – Feb 2010**

**Java Developer**

* Developed and integrated new UI components for device display in Bigpond Registration Application, merging modern interfaces with legacy tracking via the memetrics JavaScript toolkit.
* Collaborated with business analysts and users for requirements clarification and demonstration, including designing special offer discount modules for varied signups**.**

**Qualification and Training**

* Bachelor of Engineering (Computer Science) from Bangalore University, India
* AWS Certified Solutions Architect Associate
* Kubernetes Training from SimpliLearn