**Keith**

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**SUMMARY**

**Experienced Full-stack software engineer with 8+ years of building responsive, resilient web-based enterprise applications for a variety of North American industries including Insurance, Payments, Fintech, and Application security. Extensive hands-on experience in Spring MVC, JSP front-end development, and Java programming. Proven ability to deliver high-quality code and transition seamlessly from STRUTS 1 to Spring MVC. Proficient in utilizing Spring Framework, Bootstrap, Hibernate, and IBM RAD for efficient software development. Strong problem-solving skills and a keen eye for detail. Areas of focus include building software that addresses business needs and follows maintainable clean code, building data-intensive microservices, message-driven asynchronous architecture, improving programming practices, and enabling Continuous Delivery, requirements gathering, analysis, and refinement. Well-acquainted with Architecture design, Object Oriented development (Java 17/Angular/Node/React), Middleware (Docker/Kubernetes/Kafka/Redis), Data design (Oracle PL/SQL, SQL/NoSQL), Cloud technologies (Azure/AWS EC2, S3, RDS, Route53, Lambda, API Gateway)/ Linux, ETL (Hadoop/Spark), Network Monitoring and Management (SNMP, NetFlow, IPFix, JVision, and Telemetry), SDLC management (CI/CD) and Agile methodologies.**

**EDUCATION**

* **SUNY Polytechnic Institute (Poly)**, Utica, NY 01/2022

*Master of Science in Computer and Information Sciences*

* **St. Francis Institute of Technology (SFIT)**, Mumbai, India 06/2017

*Bachelor of Science in Computer Science*

* **Relevant Coursework –** *Systems & Architectures, Distributed Computing, Parallel Computing, Algorithms & Complexity, Appx/Recur Neural Networks, Artificial Intelligence & Machine Learning, Modelling & Simulation.*

**SKILLS**

*Languages Frameworks Libraries Tools*

● Java 17, TypeScript, Linux ● Spring, hibernate ● React, JMS ●Git, Gitlab, Jenkins, Gradle

● Python, SQL, Unix ● Spring Boot, Selenium ● AWS, Azure ●Jira, Zendesk, Rally

● HTML, CSS, JavaScript ●Angular, Bootstrap, Wildfly ●Docker, Kubernetes, EKS ●Liberty, Node.js, SoapUI

**EXPERIENCE**

**Senior Software Engineer**

***Infosys Limited*, (Client: *Fedpoint* Domain: Federal Insurance Agency) Hartford, CT. 10/2022 – *Present***

* Developed and maintained multiple microservices using Java 17, Kotlin, Python, React.js, Angular 10, Spring Boot, Hibernate, and RESTful web services.
* Developed and maintained RESTful APIs using Node.js, Express.js, and deployed them in containerized environments using Docker and Kubernetes.
* Leveraged NoSQL databases such as Cassandra and MongoDB to handle large volumes of unstructured data.
* Utilized Sqoop to import data onto Cassandra tables from different relational databases.
* Experience in querying data present in Cassandra cluster using Casandra query language.
* Led API testing efforts using Postman CLI and Insomnia, demonstrating proficiency in functional and automated testing techniques.
* Established a scalable Selenium automation framework for UI workflows that allowed for parallel execution, reducing the overall test execution time by 40%.
* Implemented continuous integration pipelines using tools like Jenkins, ensuring automated tests were integrated seamlessly into the development process.
* Acted as a liaison between Business Teams and offshore functional/automation leads, ensuring clear communication and alignment of testing goals.
* Reviewed and enhanced Test Strategies, Test Plans, and Test Cases, resulting in improved testing efficiency and coverage.
* Conducted Sanity, Functional, and Regression Testing, generating consolidated testing reports and release sign-off reports.
* Utilized Spring Framework and Spring MVC for building robust and scalable web applications, optimizing performance and code efficiency.
* Designed and implemented custom Temporal workflow patterns to streamline complex business logic and processes, reducing execution time by 40%.
* Designed and optimized RDBMS, including MS SQL databases, improving system performance by 25%.
* Migrated on-premises applications from Azure to AWS using Ansible to recreate a fully configured environment that we could deploy to any instance and used terraform to spin up EC2s, load balancers and S3 buckets.
* Improved task efficiency by automating system configurations with Ansible playbooks.
* Creation and maintenance of test/staging and production environments in Azure/AWS.
* Implemented AWS CloudFormation templates for infrastructure as code, reducing deployment time by 20%.
* Spearheaded the adoption of Docker for containerization, resulting in streamlined deployment processes and a 40% reduction in infrastructure costs.
* Implemented multi-factor authentication (MFA) and single sign-on (SSO) solutions using Auth0 with Postgres database for onboarding new users to the Registry Platform.
* Managed the authentication and authorization processes for API user creation.
* Utilized Django framework to build Python-based web applications, ensuring a user-friendly interface and seamless functionality.
* Conducted thorough unit testing and debugging using JUnit and Pytest, ensuring code quality and reliability.
* Developed a RESTful API for an enrollment and payments platform, utilizing Swagger for API documentation. Collaborated with frontend team to ensure seamless integration and provide comprehensive documentation for external clients.
* Integrated microservices with DevOps tools like Git, Jenkins, Docker, and Kubernetes to automate deployment.
* Participated in the full software development life cycle, including analysis, design, development, testing, and deployment.
* Provided On-call support for immediate defect resolution.
* Performed application deployment from DEV to QA to UAT environments.
* Involved in providing support during SIT, UAT, & rollout phases.
* Utilized Hibernate for efficient database interactions, ensuring data integrity and optimal performance.
* Employed Bootstrap to create responsive and visually appealing front-end layouts.
* Led the implementation of a microservices architecture using Spring Boot, integrating multiple services, and utilizing Swagger to document each service's APIs. Resulted in improved maintainability and scalability of the application.
* Leveraged AWS Lambda and API Gateway to build serverless functions and expose APIs for external consumption.
* Implemented OAuth2 authentication and authorization for secure API access.
* Implemented RabbitMQ to handle message queuing and improve system communication.
* Developed Python scripts for automating server tasks.
* Developed and deployed scalable Kafka-based solutions, handling high-volume data streams, and ensuring reliable data ingestion and processing.
* Utilized Oracle, Microsoft SQL Server, MySQL, RDS, and PostgreSQL to manage and query databases for various projects.
* Developed a PL/SQL application that automated the process of generating reports.
* Optimized PL/SQL code for performance and scalability.
* Implemented network performance management protocols including SNMP, NetFlow, IPFix, JVision, and Telemetry.
* Responsible for building the front-end UI of the application using Angular 10 and Angular material.
* Used Angular controllers to control page data and Models to bind data in User Interface with the controller.
* Used Angular JS features like data binding, directives, expressions, and services to build enrollment web applications and customer service rep portals.
* Developed code to call APIs to fetch the data and populate on UI using RxJS and Observables.
* Used Angular CLI to create modules, components services, directives, pipes, etc.
* Designed and developed Spring Batch jobs to process large amounts of data from various sources for batching and report generation.
* Integrated Spring Batch applications with other enterprise systems using RESTful web services.
* Maintained and enhanced existing Spring Batch applications including UI, project management, and business analyst to meet evolving business needs. Worked with the team to troubleshoot and resolve issues in a timely manner.
* Implemented database connectivity and data manipulation using Hibernate and JPA.
* Collaborated with cross-functional teams to gather requirements and ensure the successful integration of systems.
* Implemented error handling and recovery mechanisms to ensure data integrity and application stability. Conducted unit testing and system testing to ensure high-quality software deliverables.
* Developed and maintained complex SQL queries to fetch data from the MySQL database.
* Conducted code reviews and provided technical guidance to junior members of the team. Worked closely with the QA team to ensure the application's quality by writing and executing test cases.

**Software Engineer (Platform Operations)**

***Xpansiv Data Systems, Inc*, (*Domain*: Fintech ESG Startup) New York, NY. 04/2021 – *10/2022***

* Worked closely with the Market Operations team to deliver excellent customer service by providing excellent solutions and resolving data and production issues (related to debugging Java and Angular code base).
* Implemented Python scripts to aggregate product usage data of the user devices and verified the data generation on Amazon QuickSight by pushing data to the Redshift Cluster.
* Collaborated with the team to analyze existing code, identify migration challenges, and implement solutions.
* Implemented responsive designs and optimized applications for performance across different devices and browsers.
* Wrote Automation Test Cases in Selenium Framework for end-to-end Testing & Unit Testing using Junit, Mockito.
* Reviewed and enhanced Test Strategies, Test Plans, and Test Cases, resulting in improved testing efficiency and coverage.
* Utilized tools like Maven, TestNG, and Jenkins to establish a robust CI/CD pipeline, ensuring seamless integration of automated tests.
* Owned end-to-end test cycles, overseeing testing efforts from planning to execution and reporting.
* Implemented best design principles (Façade, Singleton, Spring MVC, Dependency Injection) using Java 17, JSP, Spring and Hibernate. Improved application performance through code and infrastructure.
* Contributed to the design and development of a customer management system, implementing Swagger documentation to streamline API communication between frontend and backend teams.
* Developed Web services for sending and getting data from different applications using SOAP Messages, such as Loan Applications, to transfer data from Branch Server to Head Office Server, then used SAX and DOM XML parsers for data retrieval.
* Worked with Selenium and Cucumber to do the end-to-end automation test by creating test scenarios.
* Implemented unit and integration tests to cover over 90% of the code
* Involved in the JMS Connection Pool and the implementation of publish and subscribe using Spring JMS. Used JMS Template to consume messages from the JMS provider.
* Involved in design, development, and testing of the application.
* Involved in writing the test cases for the application using Junit (using Mockito).
* Design and develop the entity structure and generate the ER diagram by performing reverse engineering.
* Actively attended daily scrum meetings, design sessions, and sprint reviews to communicate technical problems and solutions, also delivered demos during internal technical meetings
* Migrated on-premises applications from Azure to AWS using Ansible to recreate a fully configured environment that we could deploy to any instance and used terraform to spin up EC2s, load balancers and S3 buckets.
* Improved task efficiency by automating system configurations with Ansible playbooks.
* Creation and maintenance of test/staging and production environments in Azure/AWS.
* Reduced system failure by implementing Datadog alerts and dashboard JVM/Process metrics which provide oversight on the application performance.
* Experience in working with web servers like Apache Tomcat, Jetty, IBM WebSphere8.0, JBoss 7.1.0, and WebLogic 10.0. Designed, developed, and maintained CI/CD pipelines. Implemented Infrastructure as a code (Iac) using ansible and terraform.
* Develop automation BDD test cases for code using serenity, selenium, and cucumber.
* Deployed, managed, and supported several applications deployed on multi-cloud infrastructure using AWS and Azure, container based microservices using EKS, EC2 and Azure VMS for virtual machines.
* Responsible for Backup, Restoration, System Upgrade, and high availability of database in both production and in Disaster recovery, Setup transactional replication into DR server.
* Monitored and improved Performance and Security of the resources deployed in cloud using Microsoft Defender, Security Groups and AWS tools, such as NAT gateway, Security Groups, Crowdstrike and Datadog AppSec.

**Graduate Assistants**

*SUNY Polytechnic Institute*, Utica, NY 02/2020 – 04/2021

* Implemented Data visualization and trained ML models in Python for large datasets using PyTorch, Keras & seaborn.
* Graded homework assignments, tests, and special projects to communicate grading, lesson preparation and curriculum implementation.

**Software Engineer**

***Larsen & Turbo Infotech Ltd. (LTI)*, (CLIENT: Travelers Insurances USA) Mumbai, India 09/2017 – 01/2020**

* Worked on developing and maintaining the core insurance policy admin platform for one of the top 5 property and casualty insurers in the US.
* Implemented responsive designs and optimized applications for performance across different devices and browsers.
* Specialized in end-to-end SOA, J2EE, Design Patterns, Feature development, Bug Finding & Defect Resolution.
* Participated in Story Planning using Scale Agile Framework- SAFe™ (Scrum, XP, Kanban using Rally). Included Test Planning, Conﬁguration, and Architecture design.
* Developed Large Policies Processing Architecture using JMS, and IBM MQ to handle large data and faster processing along with an Excel File Scanning & Upload module using Node.js.
* Developed RESTful APIs using Spring Boot and enabled cross-platform compatibility for the Web Application.
* Wrote Automation Test Cases in Selenium Framework for end-to-end Testing & Unit Testing using Junit, Mockito.
* Fixed defects involving Java/JS/SQL code, Network & Environment related, XSS and SQL Injection related & Cyber Security & Vulnerability Related. Confident in Java and JavaScript Debugging.
* Performed Continuous Integration using Cloudbees Jenkins. Familiar with DataPower, Redis, Dynatrace, Zipkin etc.

**Cybersecurity Intern**

***Skynet Secure Solutions*, Mumbai, India. 06/2015 – 09/2017**

* Performed site evaluations and Conducted Workshops for demonstrating pen-testing and security tools.
* Assisted in Cyber Security investigations for Mumbai Police Cyber Cell Unit (BKC, Mumbai). Also acted as technical witness for Cyber related Cases.
* Provided excellent service and attention to customers during face-to-face on-site interactions.
* Researched and designed advanced computer forensic tools. Audited networks and security systems to identify vulnerabilities.

**PERSONAL PROJECTS**

* Emotion Recognition Neural Network| College Cloud Print System | Carpool WebApp | Automated Wireshark