AKANKSHA SINGH

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PROFESSIONAL SUMMARY

Highly motivated individual with over 5 years of diverse experience in developing and implementing software solutions. Proven expertise in developing, testing and debugging high performing software solutions with a keen eye for detail. Skilled in object-oriented programming, web development and database technologies. Excellent problem-solving and communication skills and demonstrates a passion for learning and implementing new technologies.

KEY HIGHLIGHTS

- Extensive experience in Java, J2EE technologies, and Angular, including Servlets, JSPs, Spring, Spring Boot, Hibernate, Java Beans, Angular framework, and Golang.
- Proficiently developed microservices, incorporating WinAPI expertise to optimize payment posting processes using Spring Boot Data JPA and integrated Apache Kafka and Cassandra for message persistence and transaction processing.
- Expertise in designing and executing complex queries, PL/SQL procedures, triggers, and functions for Oracle databases.
- Leveraged multi-threading and Java 1.8 features to implement efficient thread pool management and enhanced data access.
- Applied design patterns such as MVC, Singleton, and Factory, fostering modular and maintainable codebases, including WinAPI design patterns.
- Developed RESTful web services using Spring MVC, JAX-RS, Golang, and Spring Security, contributing to a robust service-oriented architecture.
- Collaborated with front-end teams, gaining proficiency in Redux, Typescript, RTK Query, Node.js, and React for consistent user experiences.
- Demonstrated adaptability by transitioning from Java to Python and Golang, applying strong software engineering principles to Django development.
- Utilized AWS services including EC2, S3, and Lambda for deployment, aligning with industry best practices.
- Managed project workflows through JIRA, GitHub, Golang, and CircleCI, showcasing effective collaboration and version control skills.
- Integrated Docker for streamlined development processes and gained experience with containerization and orchestration.
- Demonstrated hands-on experience with C++, C#, Perl, and ASP.NET and IBM RPG, contributing to diverse development contexts, including PHP development tasks.
- Employed Linux environments for application deployment and troubleshooting, showcasing adeptness in Linux systems and Golang.
- Applied DevOps principles through CI/CD pipelines, automated unit tests, and cloud-based deployment, enhancing software delivery practices.
- Utilized Microsoft Azure services such as Azure DevOps, aligning with cloud-based development practices.
- Employed SQL and NoSQL databases, including MongoDB, PostgreSQL, and Oracle, to optimize data storage and retrieval.
- Experience in working with IBM WebSphere Portal/Application Server, BEA Web Logic, and Apache Tomcat application servers.
- Implemented SOA architecture with web services using SOAP, WSDL, UDDI and XML.

- Expertise in developing data models using Hibernate Object relational mapping (ORM) frameworkand also used Hibernate Annotations, and Golang to reduce time at the configuration level.
- Proficient with UML in generating artifacts of software system (Use cases, Sequence diagrams, class diagrams etc.) and using the design patterns.
- Familiarity with testing frameworks such as Junit, Mockito, and Selenium for ensuring software quality.
- Proficiently used IDEs like Eclipse, IntelliJ, and Spring Tool Suite, and Node.js for development and debugging tasks.
- Strong communication skills, enabling efficient interaction with cross-functional teams, stakeholders, and Golang integration.

SKILLS

Languages/Tools	Java, JSP, Servlets, JDBC, C++, C#, DevOps, CI/CD, PL/SQL, Soap, Golang, Axis, AJAX, XML, UML,Rational Rose, CVS, JUNIT, MAVEN, PERL, People Code, Python, Redux, Typescript, JIRA, Docker, Parasoft, VectorCast, LDRA, Node.js, RPG
Operating Systems	UNIX, Windows, Linux
Databases	MySQL, MS SQL-Server, Oracle 8i/9i/10g, MongoDB, Oracle, PostgreSQL, Redis
Application servers	IBM WebSphere 5.x
Web servers & Frameworks	Tomcat, Spring, JSF, Hibernate, Spring Boot, Django, DRF Development, React, RTK Query, ASP.Net, Angular
Scripting languages	HTML, XML, Java Script, JSP, PHP, Python
IDE's	MyEclipse Workbench 5.5, Eclipse 3.X, IntelliJ
Front End Technologies	HTML5, XML, JavaScript, TLD, Custom Tags, CSS3, AJAX, React, Redux, Typescript
Web Technologies	J2SE, Servlets 2.4/2.5, JSP 2.0/2.1, Custom Tags, JDBC 2.0/3.0, DOJO,Java Beans, WS Security, Java Security, OAS V2
Versioning tools	CVS, GitHub, Rational ClearCase, SVN, CircleCI
Cloud Technologies	AWS, ECS, Terraform, Microsoft Azure

PROFESSIONAL EXPERIENCE

Company: Juza Cloud
Location: Canada (Remote)   **2022 Dec - Current**
Role: Software Developer

Roles and Responsibilities:

- Involved in the analysis, design, and development phases of the **SDLC** utilizing Agile (**SCRUM**) development methodology to deliver regular updates to the business team and project managers.
- Created **Microservices** to enhance the payment posting process, leveraging **Golang**, **Node.js** and the Express framework. Integrated **Spring Boot Data JPA** to store messages in **Apache Kafka** Topics to **Cassandra DB** and employed **Spark** jobs for data processing and posting transactions to Apache Kafka **TXN** topic.
- Developed and maintained **WinAPI** applications to meet project requirements, ensuring compatibility and adherence to Windows platform standards.
- Designed and implemented various **Oracle** database queries, including both simple and complex queries,

PL/SQL procedures, stored procedures, triggers, and functions.

- Implemented Executor Service multi-threading to establish a Thread pool for parallel processing, enabling asynchronous execution of processes using future calls to access data.
- Developed applications using Java 1.8 with new features like annotations, Generics, enhanced for loops, and Enums.
- Employed design patterns such as **MVC**, Singleton, Business Delegate, Factory, and Service Locator.
- Designed and developed **RESTful** web services using **Spring MVC REST framework** and **JAX-RS**.
- Utilized Spring **MVC Rest Controller**s and Services with Dependency Injection, Spring JMS, and Spring Security. Implemented Spring Framework AOP Module for logging application status.
- Employed Spring annotations for Dependency Injection, Auto-wiring, and **Spring MVC** for **REST APIs** and Spring Boot for **Microservices**.
- Implemented Microservice architecture with **Spring Boot**-based services interacting through REST.
- Utilized micro-frameworks to implement REST APIs with **Golang** and MongoDB (**NO SQL**) as the backend database.
- Incorporated **Python** and **Django** within a Java development role to enhance cross-functional collaboration.
- Collaborated with the frontend team, gaining familiarity with **Redux**, **Typescript**, **RTK Query**, **PHP**, and **React** to ensure consistent user experiences.
- Demonstrated proficiency in **C++** through active participation in online coding competitions, contributions to open-source projects on platforms like **GitHub**, and utilization of **IBM RPG** (Report Program Generator) for legacy system maintenance and enhancement.
- Developed **Perl** scripts for automating data processing and analysis tasks.
- Gained hands-on experience with **C#** and **ASP .NET Core** by developing a personal web application that followed **MVC architecture** and integrated with a **SQL Server database**.
- Extensively utilized **Linux** environments during development and troubleshooting phases, showcasing expertise in Linux systems.
- Applied **DevOps** principles by integrating automated unit tests and deploying applications to **AWS Lambda** using **CI/CD** pipelines.
- Utilized **Microsoft Azure** services, including **Azure DevOps** for version control, continuous integration, and deployment processes, further enhancing cloud-based development skills.
- Acquired expertise in **Docker**-based projects, encompassing the creation of **Docker images**, container management, and containerized application deployment.
- Leveraged **AWS services** such as **EC2**, **S3**, and **Lambda** for deployment, aligning with the required AWS experience.
- Managed project workflows through **JIRA**, **GitHub**, and **CircleCI**, demonstrating strong collaboration skills and experience with version control platforms.
- Integrated **Docker** within the development process, deepening understanding of containerization and orchestration.
- Generated **JSON** data and stored it as documents, including data types and conversions, in **MongoDB**.
- Developed **SQL** queries, stored procedures, triggers, views, and improved performance with explain plans.
- Designed **APIs** for AWS Lambda to manage servers and execute code in AWS.
- Employed **AWS CloudWatch** for alerting, maintenance, and monitoring of production and corporate servers/storage.
- Possessed familiarity with **Selenium Web Driver**, **Selenium** commands, and **X-path**. Developed grunt tasks for running unit tests on **Jenkins** and used **JIRA** for issue assignment, tracking, reporting, and auditing in the application.
- Gained practical knowledge of testing tools such as **Junit** and **Mockito**, contributing to code quality in a collaborative development environment.
- Utilized Eclipse-based **Spring Tool Suite (STS)** for the development and debugging of Spring Boot

applications.

<u>**Company**</u>**: Tata Consultancy Services**
<u>**Location:**</u> **Montreal**   **2020 Jan – 2022 Dec**
<u>**Role:**</u> **Software Developer**

<u>**Roles and Responsibilities:**</u>

- Coded **RESTful** web services using **Spring Boot**, including **Golang**, to revamp an existing application.
- Established Apache Kafka Topics and implemented **Advanced Encryption Standard** (**AES**) for secure password encryption and decryption in **Cassandra** connection classes.
- Designed and implemented **RESTful** endpoints, business logic, and service layer components using **Spring** and **Golang**. Integrated **Perl** scripts to automate specific data processing tasks, enhancing system efficiency and functionality.
- Maintained and optimized legacy systems using **IBM RPG** while integrating modern technologies to improve overall system efficiency and functionality.
- Developed and maintained **WinAPI** components for seamless integration with existing applications, enhancing overall system efficiency and functionality.
- Deployed **Spring Boot**-based **microservices** on **AWS EC2 instances** incorporating **Golang** for enhanced functionality.
- Utilized **Spring Boot framework** for developing **Presentation** and **Business Layers**.
- Configured and established a **Microservices** architecture integrated with Spring Boot applications, incorporating Golang.
- Leveraged **Spring Boot's** efficiency in building cloud microservices with minimal configuration.
- Managed dependency injection using Spring Boot and developed, tested, and supported microservices.
- Employed **Node.js** to develop standalone Microservices, aligning with Node.js proficiency.
- Implemented **Angular framework** to create responsive and dynamic user interfaces, enhancing user experience.
- Utilized Spring Boot properties like actuators and health checkers to improve microservice implementations.
- Worked with **NoSQL database Cassandra** to perform **CRUD** operations (Update, Insert, and Delete data).
- Wrote **SQL** queries and utilized **I Batis** as a **DB** connectivity and persistence tool.
- Utilized **Hibernate** as the **ORM** tool to communicate with the database and worked with Hibernate Query Language (**HQL**).
- Developed **Model logic** using **Java Beans** and used Hibernate to store persistence data in an **Oracle** database.
- Designed service layers using **Spring Framework** and developed business logic with Spring Boot.
- Transitioned from **Java** to **Python**, demonstrating proficiency in **C++** and **C#** while applying strong software engineering principles to **Django** development.
- Utilized **PHP**, **Redux**, **TypeScript**, **RTK Query**, and **React** to develop **RESTful** web services using Spring Boot, showcasing expertise in **ASP .NET** and **.NET Core**.
- Leveraged **Linux** expertise to troubleshoot and optimize microservices' performance on **AWS EC2** instances, aligning with Linux requirements.
- Implemented **Docker** and **Spring Boot** for microservices management, demonstrating containerization

and distributed systems expertise.

- Deployed EC2 instances on **AWS**, showcasing hands-on experience with cloud platforms.
- Utilized code coverage analysis tools like **Parasoft**, **VectorCast**, and **LDRA** to ensure comprehensive testing and code quality.
- Familiarity with **SaaS** solutions and **Azure**, demonstrated through hands-on experience with AWS and containerization, aligning with Azure and SaaS requirements.
- Developed a **MongoDB**-based data persistence layer, supporting CRUD operations and optimizing data retrieval.
- Familiarized with **PostgreSQL** for database operations, including Golang, aligning with PostgreSQL experience.
- Created **JUnit** test suites to test **Hibernate DAOs**, **REST controllers**, and data upload to the backend database.
- Utilized **Maven** for build management and explored **POM** dependencies and plugins.
- Implemented **Jenkins** for Continuous Integration and deployment (**CI/CD**) into **Tomcat** Application Server.
- Designed and managed **API system** deployment using a fast **HTTP** server and **Amazon AWS** architecture, automating **AWSS3** data upload and download.
- Participated in requirement gathering discussions and collaborated closely with the business team.

Environment: J2EE, Spring MVC, XML, AJAX, C++, C#, ASP. NET, AWS, Hibernate, Bootstrap, JIRA, Python, Django, PostgreSQL, Tomcat, JSON, Jenkins, Spring Boot, Angular, Docker, Azure, SaaS, Linux, Webservices, Microservices, Maven, HTML5, CSS3, WebSphere, STS, Oracle, SQL, PL/SQL.

Company: coMakeIT
Location: Hyderabad   **2018 May – 2019 Dec**
Role: Associate Software Engineer

Roles and Responsibilities:

- Prepared the technical design documents and unit test case documents.
- Implemented business logic using **core Java**, addressing product defects.
- Managed application deployment and maintenance.
- Contributed to Unit integration, bug resolution, and User acceptance testing with test cases.
- Employed **JUnit Framework** for unit and integration testing via test case creation.
- Exhibited strong **Java** skills while enhancing core Java business logic, resolving product defects, and showcasing proficiency in **C++** and **C#**, with additional expertise in **WinAPI**.
- Collaborated on the development of a **Django** web application, demonstrating expertise in web development using **Python** and the **Django** framework to foster cross-functional collaboration.
- Collaborated with teams to design and implement components for distributed systems, highlighting experience in this field.
- Gained practical experience in **Linux** environments through application deployment and maintenance.
- Applied **DevOps** practices and tools for continuous integration and deployment, contributing to streamlined development workflows with a focus on **Golang** applications.
- Developed **Angular** components and seamlessly integrated them into a dynamic front-end, leveraging **ASP .Net** and **SaaS** skills alongside Angular.
- Demonstrated familiarity with cloud technologies through participation in projects involving **Azure** services.
- Developed Node.js applications, showcasing proficiency in Node.js to meet project requirements, alongside experience in **Golang**.

- Utilized **MongoDB** to create and implement a robust database solution, enhancing data storage and retrieval capabilities.
- Developed **PHP** scripts and incorporated them into web applications, showcasing proficiency in PHP development.
- Gained expertise in the **UI layer** using **HTML**, **XHTML**, **AJAX**, and **CSS**, aligning with ASP .Net and SaaS experience.
- Actively participated in **Agile Scrum** methodologies, showcasing the ability to work effectively in fast-paced, collaborative environments.
- Employed **PL/SQL** for database development, aligning with the required **PostgreSQL** experience.
- Attended **daily scrums**, effectively communicating status updates and highlighting issues for resolution.
- Participated in technical design discussions, offering valuable input on efficient ways to develop specific functionalities.
- Worked extensively with **XML** schema and structures, utilizing **XSL/XSLT** for formatting and transforming XML documents.
- Prepared **test scripts** and conducted **unit** and **system** testing.
- Developed **PL/SQL** packages, functions, and stored procedures.
- Interacted with the business team to gather functional specifications and design requirements.
- Developed **Node.js** applications, showcasing proficiency in Node.js to meet project requirements.
- Involved in **Unit** integration, bug fixing, and User acceptance testing with test cases.

Environment: Java1.6, Servlets, JSP, HTML, XHTML, CSS, PostgreSQL, Python, Django, Angular, JDBC, Oracle11g, My Eclipse Blue 10.0, Agile, OracleSQL developer 2.1, PHP, JUnit, JSON, AJAX, Python, Azure, Linux, MongoDB, C++, C#, ASP.NET, Log4j and WebSphere Application Server 7.1

EDUCATION

Bachelor of Technology | 2018
  ➢ Jawaharlal Nehru Technological University | Hyderabad