SETHU AKHIL

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Summary _____

- Overall 2+ years of IT experience in all phases of Software Development Life Cycle and maintenance of web based and client-server multi-tier applications/architectures using Java/J2EE technologies.
- Development, Implementation, Production and Support of Java, J2EE and client-server technologies. Very strong in Core JAVA and all the OOP concepts.
- Extensive development experience specializing in building entire applications using JAVA, J2EE, MVC Framework, Spring Boot, Spring, Hibernate, JavaScript, HTML, CSS, Oracle, SQL.
- Hands-on experience developing microservices using Spring Boot to build modular applications that improve scalability, availability, and agility.
- Expertise in XML, SAX, DOM, SOAP web services, WSDL and RESTful web services.
- Good knowledge on Amazon Web Services (AWS), Amazon Cloud Services like Elastic Compute Cloud (EC2), Simple Storage Service(S3), Amazon RDS, Amazon Cloud Watch, Route 53.
- Facilitated in developing testing frameworks such as JUnit, Mockito for Test-Driven Development (TDD).
- Knowledge of Software Development Methodologies like Agile, Waterfall.
- Hands-on experience using Eclipse, SLF4J, Log4J, JUnit, and Mockito for building, logging, and testing, with JTest for performance testing.
- Extensively implemented Spring MVC Framework, JSP, and JSF for creating user interface modules.
- Extensive experience of working with RDBMS like Oracle, MySQL, PostgreSQL, SQL Server and developing Stored Procedures, Triggers, Views, Functions and SQL Queries.
- Experience with container-based deployments using Docker, managing Docker images and Docker Hub.
- Good knowledge of Single Page Applications (SPA) using JavaScript frameworks like AngularJS and React.js.
- Good experience in implementing Continuous Integration and Deployment (CI/CD) tools like Jenkins, Docker.

Technical Skills _____

- **Languages**: Java, JavaScript, HTML, CSS, SQL, PL/SQL
- **Frameworks**: React JS, Spring (Boot, Data JPA, REST, AOP, Security), Hibernate, Struts
- **Web Technologies**: JSP, Servlets, JDBC, JSON, RESTful APIs, XML, SOAP
- **Databases**: MySQL, PostgreSQL, MongoDB, Oracle, SQL Server
- **Tools**: Jenkins, Docker, Maven, Mockito, Apache Kafka, Postman, Log4J, SLF4J
- **Cloud Services**: AWS (ECS, EC2, RDS, CloudWatch, Beanstalk, Route 53)
- **Version Control**: Git, SVN, CVS
- **IDEs**: Eclipse, Visual Studio, IntelliJ IDEA, Spring Tool Suite
- **Development Methodologies**: Agile, SDLC, TDD
- **Operating Systems**: Windows, Linux, MacOS, Unix

Projects _____

- **Quiz Application**
  Technologies Incorporated: Java, Spring Boot, PostgreSQL, Microservices, Eureka, Docker, Docker Compose, AWS, HTML, JavaScript
  GitHub Link: GitHub Repository
  - Developed a comprehensive Quiz Application with a microservices architecture for enhanced scalability and maintainability.
  - Designed and implemented distinct services for user management, question handling, quiz orchestration, and result processing, each independently deployable and scalable.
  - Incorporated Eureka for efficient service discovery and communication between microservices.
  - Employed PostgreSQL for reliable data storage and retrieval, ensuring data integrity and consistency.
  - Created an interactive and user-friendly front end using HTML and JavaScript, providing a seamless user experience.
  - Developed Docker images for all backend microservices and the frontend, encapsulating dependencies and environment configurations for consistent deployment.

- Deployed the application on AWS, ensuring high availability, scalability, and resilience.
- Enhanced application speed and reliability by implementing database indexing, asynchronous processing, and load balancing; reduced server load by 40% and boosted transaction processing speed by 60%.
- Conducted thorough testing to ensure reliability and robustness.
- **Student Management System**
  Technologies Incorporated: Spring Boot, React, Java, RESTful APIs, JPA, Aspect-Oriented Programming (AOP).
  GitHub Link: GitHub Repository
  - Developed a comprehensive Student Management System for seamless management of student data with a modern user interface and robust backend functionality.
  - Built a dynamic and responsive user interface using React and JavaScript, enhancing interactivity and user experience.
  - Implemented a powerful, scalable backend with Spring Boot and Java, ensuring robustness and maintainability.
  - Created RESTful APIs for efficient communication between frontend and backend, enabling smooth data exchange.
  - Conceptualized JPA repositories for standardized and efficient data persistence.
  - Implemented Aspect-Oriented Programming (AOP) for logging key operations, ensuring transparency and accountability.
  - Incorporated Maven for project management and dependency management, streamlining the build process.
  - Employed Git for version control, facilitating efficient collaboration and code management.
  - Conducted API testing with Postman to ensure the correctness and reliability of RESTful services.
  - Used IntelliJ IDEA and Visual Studio Code as primary IDEs for backend and frontend development, providing robust and flexible development environments.
  - Designed the system to handle large volumes of data and user interactions effectively.

Experience

Full Stack Developer   **Concentrix Catalyst**   *Hyderabad, TG, IND*   **02/2021 – 01/2023**

- **Title**: Healthcare Communication and Management System
- **Roles and Responsibilities**
  - Collaborated with a cross-functional team to develop an advanced group video call feature for hospital staff using Java and Spring Boot, enhancing communication and coordination by 40%.
  - Influenced development for patient registration system for Hospital.
  - Developed modules using Spring Framework for Dependency injection through configuration files and ease the integration of different framework.
  - Guided coding DAO layer using Hibernate to access the Oracle database.
  - Extensively used Hibernate in data access layer to access and update information in the database.
  - Developed Java classes to simulate Restful Web Services and other configurations for the application.
  - Analysed Hibernate framework for backend development with Spring ORM and Rest webservices to be used by the front-end development team, used Spring dependency injection for middle layer development.
  - Wrote JUnit test case for back-end logic implementation development by 80%.
  - Involved in unit and integration testing, used Git for source code version control, and supported maintenance and bug fixes.

Education

Master' s   **Wilmington University**   *Wilmington, DE, USA*   **01/2023 - 12/2024**

- Pursuing a Master's at Wilmington University, expected to graduate by December 2024.

Others

- Demonstrated strong problem-solving skills and the ability to work under pressure to meet deadlines.
- Committed to continuous learning and professional development to stay current with industry trends and technologies.