SPANDANA PASUPULETI
Java Full Stack Developer

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SUMMARY

- Around **3 y**ears of professional experience in developing web applications using J2EE technologies like Java, RESTful services, Servlet, JSP, JDBC, JavaScript, Spring, Spring Batch, Hibernate, XML, UNIX shell scripting, Web services and having extensive knowledge in all the stages of Software Development Life Cycle (SDLC).
- Experienced with Core Java with Multithreading, Concurrency, File Handling I/O, Generics, Data Structures and Collections, Garbage Collection.
- Extensive industry experience with proven expertise in system development activities including requirement analysis, design, coding, testing and implementation with emphasis on Object Oriented, J2EE and Client Server technologies.
- Expertise in web development using HTML, CSS, JavaScript, Microservices and XML, JavaScript/jQuery, React JS, Node JS, AWS, AJAX, Git, SVN.
- Proficient in building microservices using Spring Boot, enabling modular and scalable application architecture.
- Skilled in using React JS to create reusable UI components and manage application state efficiently with libraries like Redux.
- Experienced in building RESTful APIs using Node.js and Express.js, simplifying the creation of robust backend services.
- Experienced with architectures such as Redux to manage state of the application while working with frameworks such as React JS.
- Expertise in distributed, secure and scalable application development using J2EE Technologies like Servlets, JDBC, JSP, Struts, Spring IOC, Spring MVC, Amazon Web Services (AWS), Web Services development (SOAP and RESTful).
- Experienced in utilizing Java EE technologies such as Servlets, JSP, and JDBC. Comfortable with multi-threading concepts.
- Experience in working in environments using Agile (SCRUM) and Waterfall development methodologies.
- Proficient in handling transactions with Hibernate built-in transaction management capabilities, ensuring data integrity during database operations.
- Having knowledge of working with databases, such as MySQL, including database design, SQL query optimization, and data manipulation using technologies like Hibernate.
- Well-versed in database design principles and experienced in working with both SQL databases like MySQL, PostgreSQL, and SQL Server, as well as NoSQL solutions like MongoDB. Proficient in ensuring efficient data storage and retrieval.
- Skilled in ensuring data integrity through MySQL's support for ACID (Atomicity, Consistency, Isolation, Durability) properties, guaranteeing reliable transactions.
- Certified in AWS technologies including S3, EC2, DynamoDB, Lambda, and CloudFormation, enabling deployment and management of cloud-based applications.

EDUCATION

University of North Carolina at Charlotte   **May 2023**
Masters of Science in Information Technology, **GPA: 3.9/4**
Jawaharlal Nehru Technological University, India   **May 2019**
Bachelor of Engineering in Petrochemical, **GPA: 3.4/4**

SKILLS

Programming:	Java/J2EE, Python, SQL, Data Structures (Certified by Geeks for Geeks)
Databases:	MySQL, PostgreSQL, MongoDB
Java Technology:	Servlets, JSP, JDBC, JUNIT, Maven
Web Technology:	HTML5, CSS, JavaScript, XML, AJAX, JQuery
Methodology:	Agile (Scrum), Waterfall
Cloud Technologies:	AWS (S3, EC2, Dynamo DB, Lambda, Cloud Formation) (Certified by AWS Academy Data Analytics)
Software Tools:	Git, Jenkins, Visual Studio Code, Postman, IntelliJ IDEA, Eclipse, pgAdmin4
Frameworks and Libraries:	Hibernate, JDBC, Node.js, React JS, Redux, Express JS, Spring MVC, Spring Boot, Spring Batch, Spring IOC
Operating Systems:	Windows, Linux, Unix

PROFESSIONAL EXPERIENCE

Java Full Stack Developer Intern   **Feb 2023 - Current**
JPMC, NC

- Involved in various SDLC phases like requirement gathering, Design, Analysis and Code development.
- Work within an Agile/Scrum environment, participating in sprint planning, daily stand-ups, and sprint reviews.
- Involved in developing UI using Spring MVC framework, JSP, JSTL, HTML5, CSS, JavaScript, JQuery, AJAX and React JS.
- Analyzed the React JS server structure in legacy project, then mimicked the REST service by using Java JAX-WS API, and did the corresponding configurations.
- Create responsive and visually appealing user interfaces using HTML5, CSS, JavaScript, and related frameworks (e.g., React JS, Redux).
- Implemented custom user types in Hibernate to map complex data types between Java and the database, ensuring seamless data conversion.
- Developed dynamic web pages with AJAX and integrated client-side code with server-side logic.
- Developed and maintained robust enterprise applications using Java/J2EE technologies such as Servlets, JSP, and JDBC.
- Implemented Model-View-Controller (MVC) architecture to separate concerns and enhance code maintainability.
- Developed complex service components for Data Access Layer, DAO classes to interact with backend using Java and Hibernate Framework.

- Design and optimize database schemas using MySQL and PostgreSQL to ensure data integrity and performance.
- Used Spring Core annotations for Spring Dependency Injection, Spring MVC for Rest API's and Spring Boot for Micro Services.
- All the functionality is implemented by using Spring IO, Spring Boot and Implemented J2EE components using Spring MVC, Spring IOC, Spring transactions, AOP, Batch and Spring security modules.
- Wrote unit tests and integration tests for both front-end and back-end components using JUnit and other testing frameworks.
- Leveraged AWS services such as S3 for scalable storage, EC2 for virtual machine provisioning, and DynamoDB for NoSQL data storage to enhance application architecture and scalability.

Systems Engineer | Full Stack Developer   **Aug 2019 to Dec 2021**
Tata Consultancy Services (TCS), India

- Leveraged Software Development Life Cycle (SDLC) methodologies within an agile methodology environment, with solid understanding of Scrum, sprints, and user stories.
- Followed Agile software methodology for project development. Developed application on Spring framework by utilizing its features like Spring Dependency injection, Spring Web flow with Spring MVC and Spring BOOT in IntelliJ IDEA.
- Worked with principles related to MongoDB databases, including locking, transactions, indexes, shading, replication, DB schema design, etc.
- Designed database and created tables, generating reports, written complex SQL Queries and stored procedures as per technical requirements.
- Used Hibernate Annotations concept to retrieve data from the database and integrate with Spring BOOT to interact with back end SQL Server.
- Experienced in Core Java concepts such as OOP Concepts, Collections Framework, and Exception Handling, I/O System, Multi-Threading, JDBC, Generics.
- Developed dynamic web applications using Servlets and JSP, implementing user interfaces and business logic to provide seamless user experiences.
- Experienced in working with Hibernate native SQL queries and named queries to execute custom SQL statements and optimize data retrieval.
- Designed and maintained servlet-based controllers to handle HTTP requests, applying best practices for request processing and routing.
- Involved in developing UI using Spring MVC framework, JSP, JSTL, HTML5, CSS, JavaScript, JQuery, AJAX, React JS and Redux.
- Developed resilient Spring Boot batch application utilizing Spring Batch framework to process and import massive data sets into MySQL database efficiently.
- Utilized Git for collaborative software development, ensuring smooth code integration and version control within an Agile methodology environment.
- Monitor database performance using tools like pgAdmin4, and implement proactive measures to prevent performance degradation.
- Created Excel reports to monitor user access information by fetching data using SQL queries.
- Designed web page and established connection with backend database to enable CRUD operations.

PROJECTS

Personal Portfolio:
- Constructed an interactive portfolio website utilizing React.js, strictly adhering to ES7 best practices and design patterns.
- Employed responsive web design techniques to guarantee a consistent and optimal viewing experience on devices ranging from mobile phones to desktop monitors.
- Incorporated Git for precise version control, streamlining the code management and collaboration process during the site's entire development phase.

Web Application Development:
- Orchestrated a user-centric web application adopting the Model-View-Controller (MVC) paradigm, enabling functionalities such as user registration/login and item trading.
- Executed comprehensive CRUD functionalities using a blend of HTML, CSS, and Node.js, ensuring a smooth and intuitive user experience.
- Utilized the Express.js framework coupled with EJS templates to underpin the MVC paradigm, bolstering code readability and modularization.
- Incorporated MongoDB for persistent and scalable data storage, tailored to user and application requirements.
- Integrated dynamic error feedback through flash messages, facilitating a more engaging and informative user experience.
- Tackled the inherent stateless challenges of HTTP by integrating sessions and cookies, ensuring consistent user authentication across interactions.

AI-Driven Application Design:
- Conceptualized and engineered an AI-infused application dedicated to enhancing health, learning support, or the reliability of the internet.
- Performed comprehensive user-centric research alongside focused group sessions, iteratively refining the design through feedback and usability insights.
- Crafted precise user personas derived from focus group outcomes, serving as a compass for informed design choices that harmonized with user objectives.
- Articulated design goals that harmoniously merged usability principles with user experience benchmarks.
- Produced both low-fidelity wireframes and high-fidelity prototypes, expertly showcasing a seamless interplay of intuitive interactions and captivating visual aesthetics.