Pavan Kalyan Bera

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Professional Summary:

- **Java Full Stack Developer** with 7.5+ years of IT experience, specializing in Object-Oriented and Web-based application design and development using Java, JEE, Servlets, JSP, Spring, Hibernate, JDBC, JMS, and Web Services.
- Extensive experience with **Web Technologies** including HTML5, CSS, XHTML, JavaScript, jQuery, AngularJS, AJAX, NodeJS, Bootstrap, and ReactJS. Proficient in XML and JSON.
- Proficient in **Core Java, JDBC, Servlets, JSP, Struts, Spring Core, Spring JDBC, Spring MVC, Spring Annotations,** and **Hibernate** frameworks.
- Strong knowledge of **Amazon Web Services (AWS)** including EC2, S3, CloudWatch, SNS, and Lambda. Skilled in building highly scalable Java applications using various architectures.
- Solid understanding and practical implementation of **Design Patterns** such as Front Controller, MVC, Singleton, DAO, Abstract Factory, and Factory Method.
- Active participant in **Sprint planning** and **Scrums** with hands-on experience in **Agile methodology**.
- Expertise in **AngularJS** controllers, directives, components, factory and service resources, routing, and events. Skilled in DOM manipulation using JavaScript, jQuery, and AngularJS.
- Experienced in database development with **MySQL, Oracle, NoSQL Cassandra,** and **MongoDB**.
- Proficient in deploying applications on **WebSphere Application Server, WebLogic,** and **Tomcat**.
- Experienced in building **Spring-based Java micro-services** to support enterprise web applications.
- Proficient in producing and consuming **SOAP** and **RESTful web services** using JAX-WS and JAX-RS.
- Excellent communication, analytical, interpersonal, and presentation skills. A self-starter capable of multitasking and handling deadlines in fast-paced environments.

Technical Skills:

Programming Languages: Java, Python, JavaScript, TypeScript, SQL, Web Technologies.
Web Technologies: HTML5, CSS3, SASS, LESS, JSON, XML, Responsive Design, AJAX, RESTful APIs, GraphQL.
Frameworks and Libraries: ReactJS, Next.js, Angular, Vue.js, jQuery, Spring (Core, JDBC, MVC, Annotations), Hibernate, Struts.
State Management: Redux, Redux Toolkit, MobX, Context API.
Build Tools and Task Runners: Webpack, Babel, Gulp, Grunt, NPM, Yarn.
Development Tools: VS Code, WebStorm, IntelliJ IDEA, Eclipse, Sublime Text, Chrome Developer Tools.
Debugging Tools: React Developer Tools, Redux DevTools.
UI/UX Design: Adobe XD, Sketch, Figma, Wireframing, Prototyping, Accessibility (WCAG 2.0, WCAG 2.1), User-Centered Design.
Testing: JUnit, Mockito, Jest, Mocha, Chai, Enzyme, React Testing Library, Protractor, Cypress, Selenium.
Databases: Oracle, MS SQL Server, MySQL (SQL & PL/SQL), PostgreSQL, Neo4j, Cassandra, MongoDB.
Performance Optimization: Lazy Loading, Code Splitting, Web Vitals.
Cloud and Hosting Services: AWS (EC2, S3, CloudWatch, SNS, Lambda, CloudFront), Netlify, Vercel, Firebase.
Application Servers: WebSphere Application Server, WebLogic, Tomcat.
Version Control and Collaboration: Git, GitHub, GitLab, Bitbucket, Jenkins.
Other Relevant Skills: Progressive Web Apps (PWA), Single Page Applications (SPA), Server-Side Rendering (SSR), Static Site Generation (SSG), Docker, Kubernetes, JAX-WS, JAX-RS, SOAP,

RESTful, Front Controller, MVC, Singleton, DAO, Abstract Factory, Factory Method.
Methodologies: Agile (Scrum), Test-Driven Development (TDD), Behavior-Driven Development (BDD).

Professional Experience:

Client: AIG, New York, USA
Duration: Aug 2022 – Till Date
Role: Full Stack Developer

Project Description: At AIG, New York, USA, I worked as a UI Developer on a comprehensive insurance management system aimed at streamlining and enhancing the efficiency of AIG's insurance operations. My role involved creating an intuitive and user-friendly interface for policy management, claims processing, and customer service interactions.

The system integrated seamlessly with various internal databases and external data sources, providing real-time updates and analytics. This integration enabled AIG to improve operational workflows, enhance customer service, and facilitate strategic decision-making. Using modern web technologies and frameworks, I ensured a responsive and accessible user experience across different devices and platforms, significantly improving the efficiency of insurance processing and customer satisfaction by offering a streamlined, data-driven approach to managing insurance operations.

Responsibilities:

- Participated in all phases of the Software Development Life Cycle (SDLC) including analysis, design, implementation, and testing using Agile methodology (SCRUM).
- Developed interactive and responsive frontend components using ReactJS, Angular 8, and Vue.js.
- Enhanced frontend development with React, implementing hooks and state management using Redux.
- Managed state using Redux and Context API for efficient data handling in frontend applications.
- Implemented user interface enhancements using HTML5, CSS3, JavaScript, and TypeScript.
- Designed and Developed UI for Portfolio Review Dashboard application using AngularJS, React JS, HTML, CSS, Bootstrap, LESS, JavaScript, and JQuery.
- Created Custom Directives in AngularJS, React JS, making use of Modules and Filters according to the application requirement.
- Developed business logic and backend components using Core Java 11 and Spring Boot.
- Created and maintained RESTful web services and APIs to support frontend operations.
- Utilized Spring MVC for building web applications and Spring Security for securing the application.
- Integrated various data sources and managed data persistence using Hibernate and JPA.
- Configured Spring Cloud for microservices architecture and implemented distributed configuration using Spring Cloud Config.
- Developed and deployed applications on AWS, utilizing services such as EC2, S3, RDS, Lambda, and CloudFormation.
- Automated infrastructure provisioning with AWS CloudFormation and Terraform.
- Took part in setting up the application with Jenkins and AWS and is involved in builds and deployments to Tomcat server.
- Set up development environments using Docker and Kubernetes for containerization and orchestration.
- Managed CI/CD pipelines using Jenkins, including building, testing, and deploying applications.
- Involved in CI/CD process using GIT, Nexus, Jenkins job creation, Maven build, Create Docker image and deployment in AWS environment.
- Implemented CI/CD pipelines using Jenkins and integrated automated testing with Mocha, Chai, and Cypress.
- Used Git for version control and collaborated with the team through GitHub and GitLab repositories.

Environment: HTML5, CSS3, SASS, Less, JavaScript (ES6, ES7, ES8), Bootstrap, React, Redux, Next.js, React-Router, My SQL, RESTful APIs, Jest, Enzyme, Cypress, Webpack, Babel, AWS, Git, GitHub, Jenkins, Jira.

Client: U.S. Steel, Pittsburgh, Pennsylvania
Duration: January 2020 - July 2022
Role: UI Developer

Project Description: As a Full Stack Developer at U.S. Steel, I played a key role in the development and enhancement of the company's integrated manufacturing and logistics platform. This platform is crucial for streamlining operations, improving manufacturing processes, and enhancing supply chain efficiency. My responsibilities included working on both backend and frontend components to create robust, scalable, and user-friendly applications.

I was involved in designing and implementing various modules such as Inventory Management, Order Processing, and Real-Time Analytics. The project required seamless integration of different systems and data sources, ensuring real-time data flow and accuracy. My contributions helped U.S. Steel to optimize production schedules, manage resources more effectively, and provide better insights into operational performance.

Responsibilities:

- Developed and maintained various frontend screens using HTML, CSS, JavaScript, and jQuery, ensuring high performance and user-friendly interfaces.
- Designed and developed dynamic front-end applications using HTML5, CSS3, Bootstrap, and AngularJS for a Single Page Application (SPA) experience.
- Leveraged advanced jQuery AJAX and JavaScript techniques for client-side validation and responsive design.
- Implemented AngularJS to enhance search functionality with custom filters and to build reusable components and directives.
- Developed drag and drop document editing using React.js.
- Involved in writing dynamic functions to read JSON objects and display on HTML pages using React.js.
- Created and integrated RESTful web services using Spring Boot, facilitating seamless data exchange in JSON format between systems.
- Used Spring Framework and Spring MVC to implement MVC architecture and develop lightweight business components.
- Created and maintained Hibernate DAOs, integrated Spring ORM with Hibernate, and managed database interactions with HQL.
- Employed Mule ESB as an integration platform to support a Service-Oriented Architecture (SOA), integrating diverse systems efficiently.
- Utilized SOAP UI to set up mock services for testing SOAP endpoints, ensuring accurate input and response handling.
- Developed microservices to gradually replace a monolithic Java application, incorporating RESTful services and XML-based WSDL.
- Leveraged AWS cloud services such as EC2, auto-scaling, and VPC (Virtual Private Cloud) to build secure, highly scalable, and flexible systems.
- Used AWS services to coordinate and manage the delivery of messages to the subscribers, implementing both client-side and server-side validations according to business needs.
- Involved in the CI/CD process using GIT, Nexus, Jenkins job creation, Maven build, creating Docker images, and deployment in the AWS environment.
- Experienced in the deployment of EAR and JAR files using Jenkins, ANT, Maven deploy tools, and performing other configuration changes for setting up the application in the integration testing environment.

- Configured and deployed applications on WebLogic Application Server, and managed version control using Git and defect tracking with ServiceNow.
- Optimized performance using Log4j for logging, Maven for dependency management, and JUnit for testing.

Environment:
HTML, CSS, JavaScript, jQuery, REST, SOAP, Spring Boot, SOAP UI, Mule ESB, AngularJS, Spring Framework, Hibernate, WebLogic, Git, ServiceNow, Log4j, Maven, JUnit, Bootstrap, JSON, WSDL.

Client: **Nike, Beaverton, Oregon.**
Duration: March 2018 – Dec 2020
Role: Java Full Stack Developer

Project Description: Contributed to the development and enhancement of Nike's e-commerce platform, focusing on modules such as Order Management and Product Catalog. My role involved significant backend development, improving system performance, and optimizing the user interface to provide a seamless shopping experience for customers.

Responsibilities:

- Designed and developed J2EE web-based consumer applications using JSF, Spring, DHTML, and AJAX.
- Developed UI screens using HTML, CSS, XHTML, jQuery, and JavaScript, and created the message-handling module using Spring JMS.
- Developed client-side validations using jQuery and JavaScript and created composite components using JSF facelets.
- Wrote JSF managed beans, converters, and validators following framework standards and used explicit and implicit navigations for page transitions.
- Used JPA annotations to map with database tables using Hibernate and utilized HQL and Criteria API for database querying and retrieval of results.
- Configured Hibernate multi-level and query caching mechanism using Ehcache and integrated Spring with Hibernate Session Factory.
- Used Spring Framework based on MVC architecture in WebSphere Application Development, and implemented Spring IoC, AOP, and Spring Boot for middle-tier logic.
- Developed server-side applications to interact with databases using Spring Boot and Hibernate, and implemented microservices with Spring Boot, enabling discovery using Netflix Eureka Server.
- Configured Hibernate and Spring to map business objects to Oracle 11g Database using XML configuration files, and developed web-based test clients using Spring, JavaScript, HTML, and XML.
- Responsible for developing the front-end webpages using HTML5, CSS3, JavaScript, ReactJS.
- Involved in writing dynamic functions to read JSON objects and display on HTML pages using ReactJS.
- Created and implemented web services using JAXP based on SOAP protocols with XML and utilized IBM WebSphere MQ for asynchronous messaging between components using JMS.
- Worked on AWS for continuous integration of files to the UI and worked for the backend development using Node.js and MongoDB.
- Used AWS Elastic Search service for application monitoring and full text search.
- Amazon Cloud Services like Elastic Compute Cloud (EC2), Simple Storage Service (S3), Amazon Cloud Watch, SNS, and LAMBDA. Built highly scalable Java applications using various architectures.
- Configured build and developed custom solutions using Jenkins for real-time information authentication.
- Experienced in the use of build tools like Apache Ant, Maven, Gradle, Jenkins and logging tools like log4j, project tracking tools by JiRA and QC.
- Build and continuous integration with tools like Maven and Jenkins to build jar and war files and deployed war files to target servers.

Environment: HTML, CSS, XHTML, JSF 2.0, JavaScript, Hibernate, IBM WebSphere, Spring 3, Spring Boot, Spring JMS, DHTML, AJAX, jQuery, Oracle 11g, Subversion, Maven, JUnit, Mockito, UML, Apache CXF, Netflix Eureka Server, Jenkins, Ehcache, SOAP, XML, IBM WebSphere MQ.

Client: Accenture, Bengaluru, India
Duration: June 2016 – Feb 2018
Role: Full Stack Developer

Project Description: At Accenture, Bengaluru, India, I worked as a Full Stack Developer on a digital transformation project aimed at enhancing client-facing applications. My role involved developing and maintaining both front-end and back-end components to streamline business processes and improve user interactions. The project focused on integrating internal and external services to provide real-time data and improve decision-making.

Responsibilities:

- Developed and maintained frontend components using HTML, CSS, JavaScript, and Angular, ensuring user-friendly interfaces.
- Designed and developed responsive web applications using HTML5, CSS3, and Bootstrap.
- Enhanced search functionality and built reusable components using React.js.
- Involved in building applications using React.js by building reusable UI components.
- Used ReactJS to implement form validation, search, sort, pagination, and multi-selections.
- Leveraged jQuery and AJAX for client-side validation and dynamic content loading.
- Created RESTful web services using Spring Boot for efficient data exchange in JSON format.
- Used Postman for testing and validating REST endpoints.
- Assisted in implementing real-time data streaming using Apache Kafka.
- Implemented MVC architecture using Spring Framework and Spring MVC.
- Created and maintained data access objects (DAOs) using Hibernate and managed database interactions.
- Assisted in developing microservices to replace a monolithic application.
- Configured and deployed applications on Apache Tomcat Server.
- Worked on AWS for continuous integration of files to the UI and backend development using Node.js and MongoDB.
- Proficient in AWS services like VPC, EC2, S3, ELB, Auto Scaling Groups (ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.
- Worked with Java libraries to access AWS facilities such as Simple Storage Service (S3), Simple Queue Service (SQS), and SimpleDB.
- Managed version control using Git and tracked defects with JIRA.
- Set up CI/CD jobs in Jenkins Brew Master instance, reducing the time for the deployment of microservices.
- Used Log4j for logging, Maven for dependency management, and JUnit for testing.
- Deployed applications in cloud environments using AWS and configured Jenkins CI/CD pipelines for automated testing and deployment.

Environment:
HTML, CSS, JavaScript, Angular, React.js, REST, Spring Boot, Postman, Apache Kafka, Apache Tomcat, Bootstrap, Spring Framework, Hibernate, Git, JIRA, Log4j, Maven, JUnit, AWS, Jenkins CI/CD, JSON.

Education: Master's in computer science, California State University, Fullerton, California.