Pranay Ellendra

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Professional Summary:

- 4+ years of hands-on experience in full-stack development, with expertise in both front-end and back-end technologies.
- **Back-end development** using **Java** and **Spring Boot** to build scalable, high-performance RESTful APIs and microservices.
- Experience in working in environments using **Agile (SCRUM)** and **Test-Driven Development (TDD**) development methodologies.
- Extensive experience with **Spring Framework**, including **Spring Integration** and **Apache Camel**, to implement complex enterprise-level integrations and optimize data flow.
- Proficient in **MongoDB** for managing large-scale NoSQL data and ensuring efficient query performance.
- Strong knowledge of **ReactJS**, **HTML5**, **CSS3**, and **JavaScript** to create dynamic, responsive, and user-friendly front-end interfaces.
- Expertise in integrating **Single Sign-On (SSO)** using **OAuth** to enable secure authentication flows across multiple applications.
- Skilled in building **stateful front-end applications** with **Redux** and **React Router** for smooth navigation and state management in ReactJS applications.
- Experienced in working with **RESTful APIs**, integrating **back-end services** with front-end components, and ensuring seamless data communication.
- Knowledge of **unit testing** and **integration testing** using tools like **JUnit**, **Mockito**, **Jest**, and **React Testing Library** to ensure robust application functionality.
- Proficient in **version control systems** such as **Git**, ensuring collaboration and efficient code management within teams.
- Hands-on experience with **CI/CD pipelines**, utilizing **Jenkins**, **Docker**, and **Kubernetes** to automate deployment and ensure smooth delivery cycles.
- Solid understanding of **Agile methodologies** (Scrum, Kanban), with experience in sprint planning, daily stand-ups, and retrospectives
- Excellent problem-solving skills, with a focus on optimizing both front-end and back-end performance to improve user experience and application stability.

Technical Skills:

Back-end Development	Java, Spring Boot, Spring Framework, Spring Integration, Apache Camel, Hibernate, Spring Security, OAuth 2.0, PostgreSQL, MongoDB, JPA, RESTful APIs, Microservices Architecture, Jenkins, Docker, Kubernetes, CI/CD, AWS (EC2, S3, Elastic Load Balancer (ELB), Auto Scaling, IAM, CloudWatch)
Front-end Development	ReactJS, HTML5, CSS3, JavaScript, Redux, React Router, AJAX, MUI (Material-UI), Ag-Grid, Responsive Web Design, Single Page Application (SPA)
Database Management	PostgreSQL, MongoDB, SQL, NoSQL, Data Indexing, Aggregation, Teradata (Software Environment)

Testing & Quality Assurance	JUnit, Mockito, Jest, React Testing Library, Test-Driven Development (TDD), Postman (API Testing)
Version Control	Git, GitHub
Web & Cloud Technologies	NGINX (Reverse Proxy Server), OAuth 2.0 (SSO Integration), API Security, Load Balancing, Caching Mechanisms, Elastic Load Balancer, Auto Scaling
Agile & Development Methodologies	Agile (SCRUM, Kanban), Sprint Planning, Daily Stand-ups, Retrospectives, Waterfall Methodology
Security & Authentication	OAuth 2.0 (SSO Integration), Spring Security, API Endpoint Security, Session Management
Application Deployment & Automation	CI/CD Pipelines, Docker, Kubernetes, AWS Cloud Infrastructure
Additional Skills	Python (for query optimization), ETL Processes, Data Integration, Business Logic Implementation

Professional Experience:

Client: Dish, Denver   **Nov 2023 – Present**
Role: Java Full Stack Developer
Responsibilities:

- Designed and developed RESTful APIs using **Java Spring Boot** to handle customer data, apply offers, and calculate discounts based on various criteria.
- Integrated complex business logic to ensure accurate discount application by fetching and processing customer details and product usage data.
- Involved in Requirements gathering, Analysis, Design, Development and Testing of application using **AGILE** methodology (**SCRUM**) in a Test-driven Development (**TDD**) approach.
- Implemented a **microservices architecture** to enhance scalability and flexibility, while leveraging **Spring Data JPA** and **Hibernate** for efficient database interaction, optimized data retrieval, and transaction management.
- Implemented the application with the **HTML5, CSS3, JavaScript**, **ReactJS, AJAX, Redux**, **JAVA 8 features, Spring Framework, Spring Boot ,RESTful webservices, Hibernate** emphasizing security through Spring Security, OAuth2.0.
- Used **PostgreSQL** for storing structured customer data and transactional information, including historical purchase and discount data, ensuring ACID compliance and optimal performance for complex queries.
- Implemented **MongoDB** for storing unstructured or semi-structured data, particularly for dynamic product catalogs, promotional data, and offer tracking.
- Wrote optimized SQL queries to improve data access speed and ensure efficient interaction between the application and database.
- Deployed the entire application on **AWS** cloud infrastructure, using **EC2** instances for hosting the backend services and **S3** for managing static assets.
- Ensured high availability and scalability by leveraging AWS services like **Elastic Load Balancer (ELB)** and **Auto Scaling** to adjust resources based on traffic patterns.
- Integrated **AWS IAM** for secure access management and **CloudWatch** for monitoring application performance and health.
- Used **Postman** for comprehensive API testing, including automated tests for checking the correctness of responses, error handling, and API performance under load.
- Developed test cases to simulate real-world use cases, ensuring that offers and discounts were applied correctly to various customer profiles.

- Configured **NGINX** as a reverse proxy server to handle incoming client requests efficiently and route them to appropriate backend services. Enhanced application security, scalability, and load balancing through **NGINX**'s caching and performance optimization features.
- Secured API endpoints using **OAuth 2.0** and **Spring Security** to ensure only authorized requests could access sensitive data and services.
- Applied **caching mechanisms** and optimized database queries to improve performance and reduce load times, enhancing overall system responsiveness.
- Worked closely with cross-functional teams in an **Agile** environment, participating in **daily stand-ups**, **sprint planning**, and **retrospectives** to ensure timely delivery of project milestones.

Client: JPMorgan Chase, Columbus   **Feb 2023 – Oct 2023**
Role: Full Stack Java Developer
Responsibilities:
- Developed a full-stack application to manage internal security for employees, providing features to enhance security management and employee data accessibility.
- The system allows employees' security information to be filtered and managed efficiently by internal teams.
- Built a dynamic, user-friendly interface using **ReactJS**, ensuring seamless interactions for internal users.
- Implemented **Ag-Grid** table to display employee data, offering advanced features like sorting, filtering, and pagination for efficient data management.
- Designed and integrated **tabs and side panels** to facilitate easy navigation and access to different data views.
- Incorporated **filters** to sort employees based on specific criteria, such as **base locations** or other attributes, making data retrieval faster and more efficient.
- Developed backend services using **Java Spring Boot**, focusing on building a scalable and secure architecture for handling employee data.
- Implemented **microservices** architecture for modularity, where each service is dedicated to a specific module or functionality, ensuring independent scaling and maintenance.
- Configured **REST APIs** in each microservice for secure and efficient communication between frontend and backend. Used **MongoDB** for storing employee data, ensuring flexibility in data handling and smooth integration with the backend microservices.
- Handled **database configuration** to ensure proper data flow between backend services and MongoDB, ensuring optimal performance and security.
- Developed functionality to trigger automated **email notifications** to the **Product Manager**, alerting them about important updates, such as changes in employee data or security status.
- Focused on enhancing **security** by implementing secure API endpoints and safeguarding sensitive employee data in compliance with internal security protocols.
- Ensured that the application could handle sensitive employee security data securely, minimizing the risk of data breaches.
- Each microservice handles a specific responsibility, including data processing, API security, and database operations, to ensure a distributed and efficient system architecture.
- Used **RESTful services** for clear separation of concerns and efficient communication between the frontend and backend layers.
- Designed and implemented a scalable, secure, and modular full-stack application using ReactJS for a responsive frontend and Java Spring Boot for a robust and secure backend.

Client: Tera Data, Banglore, India   **Nov 2021 – Jan 2023**
Role: Software Developer
Responsibilities:
- Implemented and maintained data management and analytics applications using **Waterfall methodology**, ensuring a structured approach to development and project tracking.
- Utilized validation controls in JavaScript for input validation purposes and performed extensive database validations to ensure data integrity.
- Developed and optimized web pages using **HTML, CSS**, and **JavaScript** for client-side data validation, while utilizing **SQL** for data handling and queries within Teradata's software environment.

- Designed and implemented data integration solutions using Java and frameworks like **Spring Integration or Apache Camel**, orchestrating ETL processes to integrate data from various sources, improving data accuracy and retrieval processes for enterprise applications.
- Extensively worked on front end, business, and persistence tiers using the **Spring** framework
- Utilized **ReactJS** components, forms, events, and routing concepts to create dynamic and responsive user interfaces for internal tools and client applications, integrating with backend APIs built in **Java (Spring Boot)** to ensure seamless full-stack functionality.
- Developed front-end applications using **ReactJS** and Flux architecture, building dynamic, responsive UIs for internal productivity tools and client-facing dashboards.
- **Integrated Single Sign-On (SSO)** using **OAuth** for secure authentication flows and developed RESTful web services to facilitate seamless data communication between client and server.
- Automated testing for React and Java applications using **Jest**, React Testing Library, and **JUnit**, achieving high test coverage, and improving application stability.
- Managed large datasets in NoSQL databases like **MongoDB**, optimizing query performance through indexing, aggregation, and leveraging Python for data query optimization.

Client: PureCode AI R&D India Pvt.Ltd, Hyderabad, India.   **May 2021 – oct 2021**
Role: Front-End Intern
Responsibilities:
- Designed and developed a single-page web application utilizing **HTML, CSS, JavaScript, React**, and **MUI**, focusing on delivering user-centric AI-driven solutions with seamless UI/UX.
- Implemented secure authentication protocols and session management to enhance user security and system performance, ensuring smooth user login and session handling across the platform.
- Built interactive shopping carts and automated checkout systems, optimizing the user experience by providing real-time feedback and smooth transitions during purchase processes.
- Designed responsive user interfaces with mobile-friendly navigation paths, ensuring optimal performance in various devices.
- Integrated APIs to enhance functionality and optimized application performance, enabling the development of scalable AI-focused solutions in collaboration with cross-functional teams.
- Conducted thorough testing and debugging of the application, ensuring high performance, and meeting both AI-related business demands and user satisfaction goals.
- Collaborated with cross-functional teams to optimize the application's performance, ensuring it met business needs and provided a seamless, efficient user experience.

Certifications:

- Web Development with HTML, CSS, JavaScript Essentials.

Education:

Master In Information Technology |University of Cincinnati, USA

REFERENCES: Provided based on request.