A close-up of a logo

Description automatically generatedPranay 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.
* **Certifications** – Web Development with HTML, CSS, JavaScript Essentials.

**Technical Skills:**

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| |  |  | | --- | --- | | **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.