Pranay Ellendra

LinkedIn | GitHub | Medium | Portfolio | + 513 (290) 6100
ellendrapranay@gmail.com

Professional Summary:

- 5 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), Apache Kafka.
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, GitLab.
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, JWT.
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 **May 2024 – 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 **Sep 2023 – Apr 2024**
Role: Full Stack Java Developer

Responsibilities:

- Built a **dynamic, user-friendly interface using ReactJS**, enabling seamless and intuitive interactions for internal users.
- Leveraged **Ag-Grid** to display employee data, providing powerful capabilities such as **sorting**, **filtering**, **pagination**, and **inline editing**.
- Integrated **tabs, modals, and side panels** for organized navigation and efficient access to multiple data views.
- Implemented **custom filters** to retrieve employees based on specific attributes like base location, role, and clearance level.
- Designed and developed **microservices** using **Java**, **Spring Boot**, and **Spring Cloud**, ensuring **modular, scalable**, and **maintainable architecture**.
- Configured and exposed **RESTful APIs** for communication between frontend and backend layers, adhering to **REST principles** and **API security** best practices.
- Utilized **MongoDB** for flexible, schema-less storage of employee data, enhancing **data querying and aggregation** capabilities.
- Managed **database configurations** and **connection pooling** for high performance and secure data operations using **Spring Data MongoDB**.
- Integrated **JWT-based authentication** and **role-based access control** using **Spring Security**, securing sensitive APIs and endpoints.
- Implemented **automated email notifications** using **JavaMailSender**, alerting the Product Manager of changes in employee security status.
- Enabled **asynchronous processing** using **Spring @Async** to handle background tasks like email notifications and data updates.
- Followed **Microservices best practices** by separating business logic into independent services: employee data, notification, audit logging, and security policy.
- Containerized microservices using **Docker** and managed multi-container orchestration using **Docker Compose** for local development.
- Used **Git** for version control and collaborated through **Bitbucket**, implementing **feature branching** and **pull requests** workflows.
- Ensured **CI/CD pipeline** integration with **Jenkins** for automated build, test, and deployment processes.
- Designed REST APIs with **Swagger/OpenAPI** documentation for internal teams to consume and test endpoints.
- Conducted **unit testing** with **JUnit** and **Mockito** and performed **integration testing** of REST APIs using **Postman**.

Client: Tera Data, Bengaluru, India **June 2022 – July 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: People tech group, Hyderabad, India. **Mar 2021 – May 2022**
Role: Associate Software Developer

Responsibilities:

- Collaborated with cross-functional teams including dentists, admins, QA, and product owners to design, develop, test, and deploy scalable dental clinic management applications using **Java, Spring Boot, and RESTful APIs.**
- Built secure and robust backend modules for patient registration, appointment scheduling, and billing using **Spring MVC, Spring Data JPA, Hibernate, and MySQL/PostgreSQL**.
- Developed and maintained responsive UI components for managing patient profiles, appointment calendars, and treatment histories using **ReactJS, Redux, JavaScript, HTML5, CSS3, and Material-UI.**
- Integrated third-party services like SMS/email notifications and implemented **OAuth 2.0 and JWT**-based authentication to ensure secure patient and admin access with SSO support for medical staff.
- Actively participated in Agile ceremonies such as Sprint Planning, Daily Stand-ups, Code Reviews, and Retrospectives, contributing to timely feature delivery and continuous improvements.
- Managed source code and collaborated with the development team using Git, GitHub, and Bitbucket, following branching strategies and PR reviews for features like appointment reminders or treatment logging.
- Containerized the microservices handling clinical workflows, inventory, and e-prescriptions using **Docker**, and deployed them on **Kubernetes** clusters using Helm charts for scalability and fault tolerance.
- Configured **CI/CD pipelines** using **Jenkins** and **GitLab** CI, automating the testing and deployment of features like dental report generation and insurance claim processing.

- Wrote unit and integration test cases using **JUnit and Mockito** and conducted API testing for modules such as invoice generation and appointment booking using **Postman**.
- Monitored system health, appointment load spikes, and real-time alerts using **ELK Stack, Prometheus, and Grafana**, ensuring high availability of patient and clinic portals.
- Contributed to database schema design for modules like treatment history, insurance records, and prescriptions, optimizing queries across **Oracle, MySQL**, and **MongoDB.**
- Implemented asynchronous messaging with **Apache Kafka**, ActiveMQ, and Spring Integration to manage real-time updates for appointment confirmations, lab results, and notifications.
- Refactored legacy code, resolved bugs, and implemented design patterns (Singleton, Factory, Observer) in modules like clinic dashboard, dental charting, and inventory alerts to improve scalability and code quality.
- Created and maintained Swagger/Open API documentation for APIs like patient onboarding, treatment records, and clinic billing, supporting better onboarding for new developers and QA teams.
- Gained exposure to cloud deployment of healthcare services using **AWS EC2** for hosting, S3 for storing medical documents/images, **IAM** for secure access control, API Gateway for external integrations, and Lambda for serverless report generation.

Client: PureCode AI R&D India Pvt.Ltd, Hyderabad, India. **June 2020 – Feb 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's in information technology |University of Cincinnati, USA
Bachelor's in computer science and engineering| Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya.