Harsh Panchal

Java J2EE Developer

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Professional Summary:

- Over **5** years of **Full Stack Java Developer** experience in analysis, **Design**, **Development**, **Documentation**, **Implementing** and **Testing** of web using **Java & J2EE**, **Springs Framework**, **Struts Framework**, **Hibernate**, **Web Services** and **XML.**
- Expert in **Core Java** with **in-depth** knowledge of **Core Java** concepts such as **Multithreading, Synchronization**, Collections and **Event/Exception** handling.
- Hands-on expertise in messaging systems and event-driven architectures using **Apache Kafka** and **RabbitMQ** for reliable inter-service communication.
- Skilled in **AWS services**, including **EC2, S**3, **Lambda, EFS**, and **Cloud Formation**, ensuring secure and scalable cloud solutions.
- Experienced in consuming and building **APIs** with **JSON** and **XML** formats, adhering to **REST** principles and **SOAP** standards.
- Strong front-end development skills using **Angular and TypeScript** for building **dynamic, responsive user interfaces**.
- Adept at **requirement analysis, system modeling, and ensuring end-to-end functionality** of applications.
- Experienced in **unit testing using JUnit**, logging with **Log4j**, and utilizing **SVN/Git** for version control.
- Extensive experience in **web application architecture and design**, implementing **MVC patterns with Struts, Spring Framework, and J2EE design principles**.
- Experience on **data access** technologies like **JDBC Hibernate SQL PL/SQL** Stored Procedures and Triggers.
- Strong knowledge of **relational database management systems** such as **SQL Server, MySQL, and Oracle**.
- Excellent **analytical capabilities** and good communication skills. Ability to quickly adapt to new environments and learn new technologies.
- Highly collaborative, with a proven track record of working closely with **system users, management personnel, and cross-functional teams** to drive solutions efficiently.
- Experienced in **IDE environments**, including **Eclipse, MyEclipse, and IntelliJ** for software development.

Technical Skills:

Languages	Java,J2EE, SQL
Java/J2EE Technologies	Spring (IOC & MVC), Spring Boot, Microservices, Hibernate, SOAP, Servlets, JSP, JDBC, Struts
Databases	Oracle, MySQL,SQL Server
Operating Systems	Windows, Unix, Mac
IDE's	Eclipse, IntelliJ
Web Server	Apache Tomcat
Tools	JUNIT, Maven, Log4j, Ant, Git, SVN
Web Technologies	XML, CSS, JSP, HTML, JavaScript, JMS, Angular, SOAP,TypeScript
Cloud & DevOps	CI/CD Pipelines (Jenkins, Docker, Kubernetes, OpenShift)

Professional Experience:

Mango Analytics, LLC   **May 2024 – Present**
Full Stack Developer

- **Designed and developed** multi-role food delivery ecosystem (Customer, Rider, Merchant, Admin) using **NestJS, Laravel, MySQL, Flutter, and Next.js**.
- **Engineered REST APIs** for authentication, order placement, payments, and role-based access; secured sessions with **JWT, OTP verification, and refresh tokens**.
- **Implemented real-time communication** via **WebSockets (Socket.IO, Laravel Echo)** for live order tracking, rider dispatch, and instant delivery updates.
- **Built AI-powered recommendation engine** to personalize restaurant and dish suggestions based on user history, cuisine preferences, and ratings.
- **Developed predictive analytics models** for **delivery ETA estimation, rider allocation, and demand forecasting**, improving operational efficiency.
- **Created AI-driven dynamic pricing engine**, optimizing discounts, commissions, and merchant profitability through demand/supply signals.
- **Integrated fraud detection pipelines** leveraging anomaly detection on payment/order data, reducing risk of fraudulent transactions.
- **Deployed secure payment systems** integrating **Stripe and local gateways (Khalti, Fonepay)**; implemented commission logic and earnings dashboards.
- **Collaborated with UI/UX team** to transform **Figma prototypes into responsive UIs**, enhancing user journeys with AI-driven insights on drop-offs.
- **Implemented AI-assisted support system**, providing smart suggestions for ticket resolution and automated response recommendations.
- **Configured notifications and alerts** via **Firebase Cloud Messaging (FCM) and OneSignal**, ensuring role-specific, real-time engagement.
- **Contributed to DevOps practices**: environment variable security (GitHub/1Password), modular backend architecture, and scalable database schema design.
- **Outcome**: Delivered a **scalable, AI-enabled MVP**, improving customer retention through personalization, enhancing delivery accuracy, and boosting merchant profitability with smart pricing.

Environment: NestJS, Laravel, Flutter, Next.js, MySQL, Stripe, Firebase Cloud Messaging (FCM), OneSignal, Socket.IO, GitHub, 1Password, Figma, Python (scikit-learn, Pandas, NumPy), AI/ML models for recommendations, ETAs, and pricing optimization.

Bank Of America ,CT.   **May 2022 – April 2024**
Full Stack Developer

- Spearheaded the migration process to adopt **Java 17**, leveraging its latest features and enhancements to optimize application performance, enhance security, and ensure compliance with modern Java standards.
- Implemented a Microservices architecture using Spring Boot to create smaller, independent applications.
- Developed unit test cases and suits on **Junit** framework for **unit testing**. Used Maven for building, deploying applications, creating **JPA** based entity objects.
- Involved in all the phases of **SDLC** including Requirement Gathering, **Design** & **Analysis** of the Specifications and Development of the Application.
- Used **Log4j** for **debugging**, **testing** and maintaining the system state.
- Involved in the design and development of **XML** presentation.
- Developed front-end components using **Angular, TypeScript, and JavaScript**, improving UI/UX consistency.
- Responsible for writing **SQL** queries and Stored Procedures using **SQL/PLSQL**.
- Extensively used **Java Collection**, Exception Handling, and File handling by **Java I/O** concept for

implementing the business logic in this project.

- Use of Struts Framework for Controller components and View components.
- Developed the presentation layer using **JSP** and implemented business logic in the Model component of the **Apache** Struts framework, following the **Model-View-Controller** (**MVC**) paradigm.
- Worked extensively on design and development of applications using **Java, J2EE, Spring Boot, and Hibernate**.
- Followed **Agile methodologies**, participating in **Scrum meetings and DevOps best practices**.
- Integrated with **Kafka**-based alert management system to provide real-time updates about the request statuses of the application.
- Designed and developed the **REST** based **Microservices** using the **Spring Boot**.
- Helped design and develop a **RESTful AP**I data providing account management capability as well as security role lookup and management for all downstream dependencies in the digital supply chain.

Environment: Java, J2EE, Spring Data JPA, Spring Boot, Microservices, Apache Tomcat, REST, XML, Log4j, STS, GITHUB, Agile, Windows,Jenkins, Docker, Kubernetes, SonarQube, OpenShift, OAUTH2, JWT, MySQL, Cassandra, JUnit, Mockito, JavaScript, TypeScript, Angular, REST APIs, Postman, Git, Tomcat, DevOps, CI/CD pipelines, Jenkins, Agile Methodology.

Aditech Infotech Pvt Ltd,   **Feb 2020– Dec 2021**
Java Developer
- Participated in all phases of Software development lifecycle (**SDLC).**
- Used Hibernate for the Object relational mapping and configured with **Oracle database**.
- Created **UI with JSP**, Engineered and developed custom tags, actions classes, and action form beans.
- Provided software configuration management with subversion, as well as connectivity with **JDBC**.
- Designed and developed variety of applications for web and desktop using Java programming languages.
- Created use case diagrams, class diagrams, sequence diagrams and object diagrams using UML.
- Extensively involved in writing the **SQL** queries to fetch data from database for reports.
- Worked on developing web application using Spring **MV**C.
- Involved in developing **Spring IOC** classes to communicate with the persistence layer.
- Development of interactive user interfaces for viewing, editing, copying, sharing and deleting the reports and alerts using **JSP, HTML** and **JavaScript**.
- Extracted data from databases with **SQL** statements and stored procedures.
- Involved in using **XML** for developing tools for user interface customization.

Environment: Java, JDBC, Spring, Hibernate, Eclipse, MySQL, JSP, JMS, HTML, XML.

Education:
- **Master of Science in Data Science** | Saint Peter's University, New Jersey -
- **Bachelor Of Engineering In Information Technology** | Gujrat Technological University, India