Rajat Kumar Sen

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WORK EXPERIENCE

Software Engineer - Java Developer

- Recro (March 2022 - September 2024)
- Total work experience - 2 Years 7 Months

Software Engineer - Java Developer

- Centroxy Solutions (November 2024 - January 2025)
- Total work experience - 2 Months

EDUCATIONAL BACKGROUND

Centurion University of Technology and Management (CUTM)

- Bhubaneswar (BBSR) Campus
- Bachelor of Technology (BTech) in Computer Science & Engineering (CSE)

KEY SKILLS

- Core Java (Java 8, Java 11)
- Spring Boot (STS, Eclipse, IntelliJ)
- Hibernate / JPA
- RESTful APIs / Web Services Development
- API Integration / API Testing (Postman)
- Microservices / Monolithic Architecture
- MVC Architecture
- J2EE
- Version Control (Git & GitHub)
- Debugging / Defect Fixing
- Frontend Technologies (HTML, CSS, JSP, JSTL, Angular)
- Caching / Logging
- Cronjobs / Rate Limiting
- Database Management (MySQL, JDBC)
- Agile Scrum Methodology
- Spring Security
- Spring Validation
- Exception Handling
- JPQL Mapping
- Build & Dependency Management (Maven)
- Web Servers (Tomcat)

PROFESSIONAL SUMMARY

Experienced Java Developer with a proven track record in designing, implementing, and maintaining robust and scalable RESTful APIs. Proficient in Java programming with hands-on experience utilizing Spring Boot to develop efficient backend solutions. Skilled in optimizing system performance, resolving complex user-facing issues, and ensuring a seamless user experience across mobile and web platforms. Adept at database management to enhance data retrieval and storage. Experienced in system monitoring, debugging, and ensuring high product quality in both development and production environments. Committed to leveraging Agile methodologies and staying up-to-date with emerging technologies to deliver high-quality, scalable solutions that meet client requirements and exceed expectations. Proven ability to collaborate effectively with cross-functional teams to ensure consistent product quality and performance.

SKILLS & PROFICIENCIES

- Expertise in Java 8 & 11 with a strong focus on building efficient backend solutions using Spring Boot
- Proficient in designing & implementing RESTful APIs, ensuring scalability & performance optimization
- Extensive hands-on experience with microservices architecture & design principles, including migrating monolithic applications to microservices-based solutions
- Skilled in database design, integration and performance optimization, particularly with MySQL & Aerospike DB for caching solutions
- Advanced knowledge in Spring Boot, Spring MVC, Hibernate JPA & utilizing them to streamline development processes & maintain high code efficiency
- Proficient in using Git and GitHub for version control, ensuring efficient collaboration & code management within teams
- Experienced in integrating third-party APIs to enhance functionality and improve user experience
- Hands-on experience in performing API testing using Postman along with debugging & resolving critical user-facing issues in both mobile & web platforms.
- Expertise in implementing cronjobs for task automation & proficiency in implementing logging mechanisms and rate limiting strategies for efficient system operation
- Experience in system monitoring, maintaining data integrity & ensuring a seamless user experience
- Well-versed in Agile Scrum practices, collaborating with cross-functional teams to ensure timely delivery & high-quality solutions
- Strong problem-solving skills with the ability to troubleshoot & resolve system issues, ensuring a seamless & optimal user experience.

zillow.com - Real Estate
Project Duration : 2.7 years | Designation : Java Developer

My Contributions in the project:

- Spearheaded comprehensive business analysis efforts, engaging with stakeholders to elicit, document, and validate intricate business requirements.
- Employed agile methodologies to facilitate dynamic requirement gathering sessions, ensuring alignment with project objectives and client expectations.
- Utilized prototyping methodologies to visualize and validate proposed solutions, mitigating risks and ensuring the delivery of high-quality products.
- Orchestrated the setup and configuration of complex projects using Spring Initializr, meticulously selecting and integrating dependencies to optimize project architecture.
- Architected and implemented robust database solutions, leveraging advanced configuration and optimization techniques to ensure scalability and performance.
- Led the end-to-end development process, crafting modular and scalable architectures with a focus on maintainability and extensibility.
- Implemented cutting-edge authentication and authorization mechanisms using Spring Security and JWT tokenization, safeguarding sensitive data and enforcing access controls.
- Pioneered the implementation of Spring validation frameworks, ensuring data integrity and adherence to business rules throughout the application lifecycle.
- Championed best practices in exception handling, establishing fault-tolerant systems capable of gracefully recovering from errors and maintaining uninterrupted service.
- Orchestrated seamless integration of third-party APIs, including payment gateways, email services, and OTP verification systems, enriching application functionality and user experience.
- Collaborated closely with external service providers to streamline integration processes, resolving technical challenges and optimizing API performance.
- Engineered robust error handling and fallback mechanisms to gracefully handle API failures and ensure uninterrupted service delivery.
- Produced comprehensive API documentation, meticulously detailing endpoints, data formats, and authentication mechanisms to facilitate seamless integration with frontend teams.
- Spearheaded version control strategies using Git & GitHub, orchestrating collaborative development efforts and ensuring codebase integrity and traceability.
- Played a pivotal role in Agile Scrum rituals, including sprint planning, daily stand-ups, and retrospective sessions, fostering a culture of continuous improvement and rapid iteration.
- Directed the deployment of software in QA environments, leveraging Spring profiles to configure environment-specific settings and streamline deployment workflows.
- Executed rigorous testing protocols using JUnit frameworks, developing comprehensive test suites to validate application functionality and performance.
- Leveraged Postman for API testing and documentation, creating structured collections to streamline testing workflows and ensure comprehensive API coverage.
- Collaborated closely with testing teams in defect triage sessions, prioritizing and resolving issues promptly to maintain product quality and customer satisfaction.
- Engineered dynamic reporting solutions, empowering users with actionable insights through interactive PDF, Excel, and CSV reports.
- Optimized image storage and retrieval processes using AWS S3, enhancing application performance and scalability while ensuring seamless multimedia content delivery.
- Spearheaded initiatives to streamline codebase development, leveraging Lombok annotations and Model Mapper libraries to reduce boilerplate code and enhance maintainability.
- Designed and implemented RESTful web services, defining clear API endpoints and resource representations to facilitate seamless communication between client and server.
- Integrated OAuth 2.0 authentication for seamless user login using Gmail credentials, enhancing security and user experience.
- Implemented pagination and sorting functionality to optimize data presentation and user interaction, improving usability and performance.
- Automated critical tasks using scheduled jobs, including OTP expiration checks and subscription management, enhancing system reliability and user satisfaction.
- Conducted engaging product demos for clients, showcasing key features and functionalities to drive adoption and gather valuable feedback.
- Facilitated knowledge transfer sessions for new team members, empowering them with essential skills and insights to accelerate their onboarding process.
- Leveraged advanced features of Java 8, such as Stream API, to optimize code performance and readability, fostering innovation and efficiency.

Airtel-Vodafone
Project Duration : 2 months | Designation : Java Developer

My Contributions in the project:

- Acquired in-depth knowledge of project flow, logic, and functionality through extensive Knowledge Transfer (KT) sessions, ensuring a smooth transition and seamless integration into the team.
- Familiarized with the tech stack, including Java 11 (Postpaid) and Java 8 (Prepaid), and the use of Aerospike DB for efficient caching and data management.
- Actively participated in daily stand-ups and collaborated with cross-functional teams to ensure smooth project execution.
- Verified the proper display of critical data (top-up lists, dashboards, country lists) for users across both mobile and web platforms, ensuring accuracy and smooth user experience.
- Monitored user growth across various locations and compiled weekly reports to track user trends and share insights with senior management.
- Led troubleshooting and issue resolution for production-level problems across prepaid and postpaid systems, including login issues, plan management, payment issues, dashboard errors, and page load failures, ensuring timely resolution and minimal impact on user experience.
- Utilized Postman for endpoint testing and debugging, ensuring system stability and accuracy by fixing defects and collaborating with third-party teams for issues outside the development scope.
- Addressed and resolved intermittent issues with data persistence (e.g., top-up list deletion) by ensuring consistent data storage in Aerospike DB.
- Coordinated the safe deployment of new features and updates to the production environment after thorough local testing to ensure stability and quality.
- Reported daily activities and project status updates to the team lead, maintaining clear communication, and ensuring alignment with project goals.
- Managed weekly timesheet submissions to the project manager and maintained accurate documentation of all technical work completed.