

PANKAJ JAISWAL

Contact No.: +91-8149904494 | E-mail: jpankajit@gmail.com | Address: Thane - 401602

Senior Software Engineer

Java Development | Spring Boot | Software Development Lifecycle | Project Management

AWS Certified Software Engineer, demonstrating expertise in designing, building, and maintaining scalable and secure applications on the **AWS** platform. Proficient in technologies such as **Kubernetes, Linux, and AWS** (Amazon Web Services), with hands-on experience in deploying and managing cloud-based infrastructure. Participating in the team's **Agile Software Development Process**; developing unit tests and functional/ integration tests as well as supporting production deployments of developed solutions; coordinating in **smooth implementation** of the project. Preparing **high level and detail design documents** according to the system requirement specifications.

SIGNIFICANT CONTRIBUTIONS

- **Deployed multi-threading** to address prolonged billing scheduler runtime, resulting in a reduction of processing time from over **2 hours to less than 10 minutes**, thereby achieving significant efficiency gains and earning recognition with an award for the accomplishment
- **Introduced a flexible encryption system** supporting various keys and implemented a key rotation mechanism to enhance security by encrypting partner and customer data with different keys, effectively **mitigating risks** associated with a single key encryption approach and ensuring heightened data security
- **Integrated SignalFx** to enhance the logging system, enabling the creation of charts and alerts for error rates, latency, and throughput of all APIs, effectively **meeting the requirements for new features** and providing comprehensive monitoring capabilities
- **Developed an online registration form** with validation features for students to register for the CET for GP Rating exam, **streamlining data collection and storage directly into MySQL database**, thereby significantly reducing error rates to just 10 percent compared to the previous manual Excel-based process and enhancing efficiency and accuracy in managing student data for the examination
- **Engineered a certificate generation application** to meet urgent demands, ensuring timely completion of the project and issuance of **Certificates of Competency**

PROFESSIONAL EXPERIENCE

Senior Software Engineer (Lead) | Eclat Infotech Private Limited | Since May 2024

Software Development Lifecycle: Actively involved in all stages of the software development lifecycle, from requirements gathering and design to implementation, testing, and maintenance.

Design & Implementation of Java-based Applications: Developed and maintained high-performance healthcare applications using Java, Spring Boot, and Microservices, ensuring reliability and scalability.

Software Release Management: Managed software releases to staging, UAT and production environments, ensuring smooth deployment and minimal disruption to operations.

Technical Issue Resolution: Identified and resolved technical issues promptly to maintain the stability and reliability of software applications.

API Development: Designed and implemented RESTful APIs for seamless integration with various healthcare systems and third-party services.

Agile Practices: Actively participated in agile practices such as scrum meetings, sprint planning, grooming sessions, and showcasing, ensuring efficient collaboration and alignment with project goals.

DevOps: Collaborated with the DevOps team to set up AWS services like RDS (Relational Database Service), EC2 (Elastic Compute Cloud), and automated the deployment process on Kubernetes using GitLab CI/CD pipelines.

Senior Software Engineer | Mastercard | June 2015 – May 2

Software Development Lifecycle: Actively involved in all stages of the software development lifecycle, from requirements gathering and design to implementation, testing, and maintenance.

Design & Implementation of Java-based Applications: Designed and implemented high-volume, low-latency Java-based applications to meet the demands of Mastercard's diverse user base and business requirements.

Software Release Management: Managed software releases to staging and production environments, ensuring smooth deployment and minimal disruption to operations.

Technical Issue Resolution: Identified and resolved technical issues promptly to maintain the stability and reliability of software applications.

API Development: Developed APIs using JAX-RS and Spring Boot, facilitating seamless integration and communication between different systems and stakeholders.

Agile Practices: Actively participated in agile practices such as scrum meetings, sprint planning, grooming sessions, and showcasing, ensuring efficient collaboration and alignment with project goals.

DevOps: Collaborated with the DevOps team to set up AWS services like RDS (Relational Database Service), EC2 (Elastic Compute Cloud), and automated the deployment process on Kubernetes using GitLab CI/CD pipelines.

Software Consultant/Developer | Board of Examinations for Seafarers Trust (India) | Oct'12- May' 15

Planning and Requirement Analysis: Collaborated closely with stakeholders to understand their needs and requirements for both software and website development projects. Conducted thorough research and analysis to identify the most effective solutions, aligning them with organizational goals.

Design and Architecture: Utilized expertise in software and web design principles to create robust, scalable, and user-friendly architectures. Developed detailed technical specifications and architectural diagrams to guide the development process effectively.

Implementation and Coding: Wrote clean, efficient, and maintainable code using various programming languages and frameworks to implement design specifications. Implemented software applications and website designs, ensuring adherence to best coding practices and standards.

Testing and Quality Assurance: Conducted rigorous testing procedures, including unit testing, integration testing, and user acceptance testing, to ensure the reliability and performance of both software and websites. Identified and rectified any defects or inconsistencies in the developed products to meet quality standards.

Maintenance and Support: Provided ongoing support and maintenance for software applications and websites, promptly addressing any issues or bugs that arose post-deployment. Conducted troubleshooting, debugging, and implemented patches or updates to enhance functionality and performance.

TECHNICAL SKILLS

Programming Languages and Frameworks: Java programming (Core Java, JEE) | SpringBoot | JPA (Java Persistence API) | Servlets | JSP (JavaServer Pages), VB 6.0, C#

Web Services and Messaging: REST Web Services | RabbitMQ

Web Technology: JSP, PHP, Servlet, JavaScript, HTML

Databases: SQL Server 2000/2008, Oracle, My SQL

Code Quality and Security Tools: SonarQube | Checkmarx | Twistlock

Application Server Management: Tomcat | JBoss

Development Practices and Architecture: Product Development | Microservice Architecture

Continuous Integration and Deployment: GitLab (CI tool)

Cloud and Containerization: AWS (EC2, RDS) | Docker | Kubernetes

Testing Frameworks: JUnit Framework with PowerMockito

Version Control and Project Management: Git (project management tool)

EDUCATION

- Master in Science (M.Sc.) in Information Technology | Mumbai University (India) | 2012
- Bachelors in Science (B.Sc.) in Information Technology | Mumbai University (India) | 2008

PROJECTS HANDLED

Thread

- Technologies: JAVA, Spring Boot, AWS, MySql
- Description: THREAD is a clinical research platform designed to streamline study management and participant engagement. It allows researchers to configure and manage studies with features like ePROs, telehealth, custom notifications, and activity tracking. THREAD supports both legacy and multi-language studies, leveraging Applanga for localization. The project includes configuring milestones, scheduling notifications, and triggering mobile builds. A hands-on example, the AC Study, demonstrates open enrollment, multiple submissions, and telehealth scheduling.

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Fincity API

- Technologies: JAX-RS, Jersey, iBatis
- Description: Enhancing the product by developing new APIs and implementing micro-service architecture. Implementing bank's direct API using OAuth Tokens Adding support of conditional based multiple DB instances.

Cache Manager

- Technologies: Spring Boot, Java, AWS Redis
- Description: This application is designed as a mediator between the AWS Redis cluster and other applications that want to use REDIS.

Finicity OAuth

- Technologies: Spring Boot, Java, RabbitMQ, Kubernetes
- Description: Developing OAuth Listener as a mediator between client app and Banks. This will help in aggregation using Bank's direct API.

Juxtapose

- Technologies: Spring Boot, Java, AWS secret manage, redshift
- Description: This application is designed to certify legacy FI's to Direct OAuth Supported FI's

TxPush

- Technologies: Spring Boot, Java, RabbitMQ, Kubernetes
- Description: This application is designed to send a notification to Finicity partners on a change in the account balance or transactions.

JRR Token

- Technologies: Spring Boot, Java, Kubernetes
- Description: This application is designed to get access token from partners and provide to the internal applications

NightHawk

- Technologies: Spring Boot, Java, Kubernetes
- Description: This application is designed to do Authentication and generate Partner token for partners

CaaS (Cryptography as a Service)

- Description: CaaS (Cryptography As A Service) provides a centralized service to perform cryptographic operations. It ensures compliance with FIPS*** standards by utilizing AWS CloudHSM for key management. Keys are securely stored within CloudHSM, never leaving its confines. All cryptographic operations are executed within CloudHSM, ensuring robust security and adherence to industry standards.
- Technologies: Java 17, SpringBoot, CloudHSM

Database Software for Common Entrance Test (CET):

- Implemented to handle massive student data, with features including data entry, administration, payment details, hall ticket generation, and report generation.
- Platform: Netbeans, Windows.
- Front End: Java SE.
- Back End: MySQL Server.

Online Application Form for Common Entrance Test (CET):

- Web-based platform for online form filling, data processing, verification, and administration for CET candidates.

- Platform: Webpage.
- Front End: HTML, PHP.
- Back End: MySQL Server.

Database Software for IV Examination:

- Client-server system for IV examination data management, including data entry, administration, payment details, and report generation.
- Platform: Netbeans, Windows.
- Front End: Java SE.
- Back End: MySQL Server.

Database Software for Managing Contacts:

- Client-server system for managing company contacts, with features for data entry, access control, and modification.
- Platform: Netbeans, Windows.
- Front End: Java SE.
- Back End: MySQL Server.

Attendance Software for Managing Staff Attendance:

- Client-server system for staff attendance management, including data upload and report generation.
- Platform: Netbeans, Windows.
- Front End: Java SE.
- Back End: MySQL Server.

LAN Chat and File Transfer Application:

- Client-server application for LAN communication and file transfer, with features including secure login, user visibility, and messaging.
- Platform: NetBeans, Windows.
- Front End: Java SE.
- Back End: File System.

Om Shiv Medical and General Stores Project:

- Inventory management software for medicine stock in/out and sales report generation.
- Platform: NetBeans, Windows.
- Front End: Java SE.
- Back End: MySQL Server.