

Chandra Pavan, Prathapaneni

Plano, TX | 945-267-3322 | chandrapavanprathapaneni@gmail.com | [LinkedIn](#)

WORK EXPERIENCE

Adverum Biotechnologies, Redwood, CA

Full-Stack Java Developer-Remote

August 2023 – Present

- Optimized database queries and implemented data caching strategies using Redis and MongoDB indexes, improving system performance by reducing query response times and enhancing scalability.
- All the functionality is implemented using Spring Boot and Hibernate ORM. Implemented Java EE components using Spring MVC, Spring IOC, Spring transactions and Spring security modules.
- Designed, documented and developed Micro Services using Java, Spring Boot, Spring, Hibernate, MySQL Workbench, Postman.
- Utilized Amazon Web Services (AWS EC2) to deploy Docker containers with both monolith and Micro-Services architecture.
- Implemented API Gateway using AWS API Gateway to expose microservices securely, manage traffic routing, and ensure scalability, reducing direct client-to-service communication and improving fault tolerance.

Capgemini, Hyderabad, India

Software Engineer

December 2020 - December 2022

- designed and developed RESTful API and services using best practices to interact within the microservices and with the frontend application. While writing application-level code to interact with APIs, Web Services using AJAX, JSON and XML.
- Involved in developing user interface with HTML5, CSS3, JSON, AJAX, React JS, Typescript, Es6 and on server-side technology with Node JS.
- Developed Data Access Object (DAO) for interacting with databases using Hibernate. Developed and consumed JSON based RESTful services using Spring MVC and Spring Boot.
- Mentored other team members regarding technology conflicts and upgradations requested by the client. Responsible for integrating the offshore team with the onsite team.
- Developing the application using Struts and Hibernate based frameworks done with server-side validations using Struts validation framework REST APIs, including JSON data formats and written shell scripts in Linux to call routines.
- Developing the Micro Services using Spring Boot that create, update, delete and get the assignment information from the backend.

CGI, Bangalore, India

Associate Software Engineer

January 2019 - November 2020

- Implemented Restful web services API using HTTP and REST principles GIT used for defects, changing tracking across the application wrote Junit test classes for the services and prepared documentation.
- Used Spring JDBC for data retrieval from the database for various inquiries. Wrote complex SQL queries to retrieve data from the Oracle database.
- Developed a web application utilizing Spring Boot that analyzes database tables to create various batch reports and visual models.
- Wrote services to store and retrieve user data from MongoDB for the application on devices.
- Implemented AWS high availability using an AWS Elastic Load Balancing (ELB), which performs balances across instances in multiple availability zones, designed, implemented, and supported fully automated.

TECHNICAL SKILLS

- **Programming languages:** Java, JavaScript, TypeScript, Python
- **Frontend:** React.js, AJAX, HTML, CSS, SCSS/SASS, Figma, Bootstrap, Tailwind
- **Backend:** Spring MVC, Spring Security, Spring Boot, Express.js, Node.js, REST API, GraphQL, Microservices.
- **Databases:** MySQL, PostgreSQL, MongoDB (NoSQL), Oracle, Microsoft SQL Server, Redis, Hibernate
- **Cloud Technologies:** Docker, Kubernetes, AWS EC2, Redshift, Aurora, AWS Cloud Solution Architecture.
- **Other Tools:** Git, GitHub Actions, Linux, OAuth 2.0, GitLab, JIRA, Maven, Postman, IntelliJ.

RELEVANT PROJECTS

Manga Inventory System: link: (*Technologies: Java, Spring Boot, Hibernate, MySQL, Postman, React JS, Node.js, GitHub Actions*)

- Developed a responsive full-stack web application using React (with hooks) and Spring Boot, implementing key features like real-time search, genre-based filtering, user ratings, and dynamic manga detail pages with lazy image loading for optimal performance.
- Designed and built secure, scalable backend architecture with Spring Data JPA, Hibernate, and Spring Security, exposing clean RESTful APIs with versioning, pagination, and custom validation for robust error handling and data integrity.
- Optimized backend data operations by implementing efficient CRUD functionality, leveraging Hibernate projections, query optimization, and pagination to improve performance and scalability.
- Maintained high code quality and CI/CD readiness, adhering to SOLID principles, reducing boilerplate with Lombok, writing comprehensive unit and integration tests using JUnit and Spring Boot, and automating build, test, and deployment processes via GitHub Actions.