

# Sampada Dhole

Portfolio: sampadadhole.com

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## SKILLS SUMMARY

- **Languages:** Java, Python, JavaEE, JavaScript, Shell Script, HTML, CSS, C++, NodeJS, GraphQL, TypeScript
- **Frameworks:** Spring Boot, Java Swing, Spring MVC, Hibernate, ReactJS, JUnit, Flask, DevOps, Angular, REST API
- **Databases:** MySQL, Oracle, MongoDB, Postgres, NoSQL, NuoDB, Redis
- **Others:** AWS, Docker, GIT Version Control, Jenkins, JIRA, Linux, Unix, SonarQube, Kafka

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## EXPERIENCE

- **Dassault Systemes** Waltham, MA  
*Software Developer (Full-time)* May 2023 - January 2024
  - **Database Migrator:** Worked on Java codebase refactoring, adding new features, and optimizing the existing database migrator, leading to substantial performance improvements and increased efficiency in database migration. (E.g. MySQL to NuoDB, NuoDB to Postgres)
  - **Development:** Successfully designed and implemented custom migration scripts in Python for a new database migrator, enabling seamless data and schema transfer between diverse databases
  - **Efficiency:** Significantly enhanced migration efficiency by optimizing data and schema transfer processes, reducing migration time from 20 minutes to just 45 seconds - a remarkable 97% improvement
  - **Monitoring:** Implemented monitoring and logging solutions using Grafana and Kibana, enabling real-time tracking and comprehensive analysis of migration processes, thus ensuring optimal system performance and facilitating proactive issue resolution
- **Accenture** Pune, India  
*Application Development Analyst (Senior Software Developer)* November 2019 - January 2022
  - **Leadership:** Mentored 4 new developers, guided them to be familiar with the project-level functions and effectively assessed the quality of work performed by subordinates.
  - **Code Reviews and Testing:** Participated in daily scrum and code reviews to improve and be synchronized with other teams. Validated Unit and Integration tests, responsible for deployment of 5000+ lines of code to production
  - **Backend:** Constructed API endpoints using Java to allow the customer to integrate third party systems to build custom solutions for their business problems which reduced the payment related issues by 30%
  - **Database:** Reworked SQL long-running queries to optimize the database performance from several hours to minutes, which improved the efficiency by 30%. Automated the data insertion process using Shell Script

*Application Development Associate (Software Developer)*

  - **Java Backend:** Developed and Analyzed new server-side services for a telecom based web application and worked on optimizing the journeys for a client in UK. Identified and fixed bugs in the codebase which solved some long-pending customer issues on production, increased the efficiency by 20%
  - **Frontend Design:** Designed a responsive User Interface using ReactJS for an application, enabling 100+ journeys to be performed smoothly and efficiently
  - **SDLC Process:** Built Continuous Integration and Continuous Deployment (CI/CD) pipelines using Jenkins to reduce deployment time by 50%
  - **Collaboration:** Implemented end-to-end features to enhance user accessibility and data retrieval, collaborating with cross-functional teams, and employing Agile methods to deliver 90% of projects on time.

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## EDUCATION

- **Northeastern University** Boston, MA  
*Master of Science - Information Systems* January 2022 - May 2024

*Relevant Courses:* Application Engineering and Development, Data Management and Database Design, Data Structures and Algorithms, User Experience Design & Testing(UI/UX), Web Development Tools and Methods, Web Design/User Experience

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## PROJECTS

- **Grocery Web Application (March '24):**
  - Developed microservices in NodeJS for customer management, product catalog, and order processing, enhancing scalability
  - Implemented Kafka for pub/sub messaging between microservices, ensuring asynchronous communication, decoupling, and flexibility in system design
  - Leveraged Docker for microservice containerization, streamlining deployment and ensuring consistent development workflows
  - Integrated Elasticsearch for efficient search functionality across customer data, product catalog, and orders.
- **Flight booking System (Sept '22):**
  - Constructed an end-to-end application where customers can browse the availability and schedule flights between two locations
  - Customers gets an email confirmation of the booked ticket as a PDF. Implemented Web security and user-based login system
  - Technologies: Spring Boot, REST API, Hibernate, JSP, JSTL, Apache libraries, AJAX
- **Health Plus Services (May '22):**
  - Health Plus Services is a Full stack Hospital Management System for health care providers which is deployed on AWS EC2
  - Allowed the patients and doctors to schedule appointments, generate reports and search through records
  - Technologies: Java, SQL