

ERARICA MEHRA

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EDUCATION

Master of Science in Software Engineering Systems, Northeastern University | Boston, MA **Expected May 2023**

Relevant Courses: Object Oriented Design, Data Management and Database Design, Web Design and User

Experience Engineering, Program Structure and Algorithms

GPA: 4.0

Bachelor of Engineering in Computer, SavitriBai Phule Pune University| Pune, India

May 2016

TECHNICAL SKILLS

Language:	Java, Javascript, Python, Scala
Web:	HTML, CSS, SCSS, jQuery, ReactJs
Database:	Oracle, SQL Server, MySQL, Apache Cassandra, Blockchain
Frameworks:	Spring MVC, Spring Boot, Hibernate, Thymleaf
DevOps:	Git, Jenkins, Jira, Trello
Operating Systems:	Windows, Linux, MacOS
Miscellaneous:	REST API, RabbitMQ, Apache Spark, Apache Solr, Amazon S3, Google Cloud Platform, Firebase

PROFESSIONAL EXPERIENCE

Aerobay | Gurgaon, India *Software Engineer* **Sept 2018 – Aug 2021**

- Implemented an Inventory Analysis project to extract, transform and load e-commerce data
- Designed a high-performance data model in Apache Cassandra to capture raw data and store analyzed data. Created jobs in Apache Spark to transform raw data to analyzed datasets to gather relevant insights on sales and unique purchases
- Integrated Payment gateways: Paypal and MangoPay, into the e-commerce platform
- Refactored bulk upload functionality to asynchronously update products in the inventory using RabbitMQ, thereby improving the performance by 80%
- Improved the performance of the Search functionality using Apache Solr, resulting in 75% accurate results in half the time
- Built REST APIs for inventory creation, view and updation for registered users. Created Swagger documentation for APIs.
- Integrated the application with FedEx Rate Request Web Service to generate pre-ship rating information and to determine billing quotes.

Tata Consultancy Services, Vodafone India | Pune, India *Assistant Systems Engineer* **Feb 2017 – Aug 2018**

- Rebuilt modules for file reading, data filtering and event processing, designed for assigning offers to specific subscribers
- Enhanced Prepaid Activation functionality to receive a recharge request from the mobile application, validate the request and enqueue it to a JMS queue
- Maintained and improved APIs for MY Vodafone App to receive the search request, look for possible prepaid and postpaid plans by calling the web service and create a response for the mobile application in JSON format, thereby reducing the time taken by the request by 30%

PROJECTS

Data Analysis for e-commerce website **Dec 2019 – May 2021**

Major Skills used: Java, Spring MVC, Apache Spark, Apache Cassandra, HTML, CSS, Thymleaf

- Created a Java project that executes Spark Jobs to transform raw data into analyzed datasets and loads the analyzed data to monitor product and customer behavior
- Implemented the analysis of unique purchases, highly rated products, most in-demand products, etc

Recommendation Engine **Feb 2020 – Mar 2020**

Major Skills used: Java, Spring MVC, Apache Solr, Apache Spark MLlib, MySQL

- Developed a Java Spring Project that stores movies and ratings, and provides movie recommendations
- Developed Search functionality using Apache Solr. Implemented Apache Solr's Autocomplete feature
- Runs Spark Jobs that leverages ALS algorithm to generate movie recommendations per user

WhatsApp Clone **Jul 2020 – Aug 2020**

Major Skills used: ReactJS, Javascript, Firebase

- Created a replica of WhatsApp and deployed on Firebase

ACHIEVEMENTS & EXTRA CURRICULARS

Active Senator of Graduate Student Government at Northeastern University **Nov 2021 – Present**

Technical Lead of Generate Build Studio, a Student-led Product Development Studio. **Jan 2022 – Present**

- Dividing and allocating tasks, managing git and performing code review.
- Improving User Experience and building responsive web pages in ReactJs, Strapi and Heroku.