
ERARICA MEHRA

Boston, USA | (857)-265-4722 | mehra.e@northeastern.edu | [LinkedIn](#) | [Github](#) | [Figma](#)

EDUCATION

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

Bachelor of Engineering in Computer Science, DY Patil Institute of Engineering, Management and Research | Pune, India **Aug 2012 - May 2016**

TECHNICAL SKILLS

Languages and Web:	Java, Javascript, Python, Scala, HTML, CSS, SCSS, jQuery, ReactJs, Node Js
Database:	Oracle, SQL Server, MySQL, Apache Cassandra, Redis, MongoDB
Frameworks:	Spring MVC, Spring Boot, Hibernate, Thymleaf
AWS:	AWS Lambda, RAM, Glue, Cloud Formation, Lake Formation, Athena, S3
Others:	REST API, JSON, JWT, RabbitMQ, Apache Spark, Apache Solr, Firebase, Figma, Git, Jenkins, Jira, Trello

WORK EXPERIENCE

AMAZON ROBOTICS

Boston, USA.

Software Development Engineer Co-Op

July 2022 - December 2022

- Built an AWS Lambda solution using boto3 library to automatically onboard data from a Data Lake to AWS Lake Formation, eliminating need to manually onboard data and resulting in more than 90% reduction in time
- Wrote unit test cases with 90% code coverage to test the Lambda solution
- Conducted research and conceptualized a Data Governance and Discoverability solution, empowering customers to easily explore tables, along with their associated data lineage, eliminating the need to reach out to the support team by 90%. Employed Figma to craft high-fidelity prototypes, offering a visually compelling representation of the solution

AEROBAY

Gurgaon, India

Software Engineer

September 2018 - August 2021

- Implemented an Inventory Analysis project to extract, transform and load e-commerce data
- Devised a high-performance data model in Apache Cassandra to capture raw data and store analyzed data. Created jobs in Apache Spark to remodel 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 performance of the Search functionality using Apache Solr, resulting in 75% accurate results in half the time
- Constructed REST APIs for creating, viewing and updating inventory for registered users. Authored comprehensive 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

February 2017 - August 2018

- Restructured and maintained APIs for MY Vodafone App to receive 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

MENACE MACHINE

Major Skills Used: Java, Spring Boot, React Js, Data Structures

January 2022 - May 2022

- Trained the Menace Machine data set using HashTable by running thousands of games against human strategy, resulting in more than 70% wins
- Built a User Interface to challenge Menace against Menace and Menace against Random Player

HUSKYWORKS

Major Skills Used: MongoDB, Express, ReactJs, NodeJs, S3

January 2022 - May 2022

- Constructed a job search and career management portal for university students and recruiters, enhancing on the features provided by NuWorks
- Leveraged Charts.js to display the status of the applications on the student dashboard and Amazon S3 to store the images

RECOMMENDATION ENGINE

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

February 2020 - March 2020

- Developed a Java Spring Project that stores movies and ratings, and leverages ALS algorithm to provide movie recommendations
- Implemented the Search functionality by utilizing Apache Solr and incorporating its Autocomplete feature

EXTRACURRICULARS

GENERATE BUILD STUDIO | NORTHEASTERN UNIVERSITY

Boston, USA

Project Lead - Website Vision Team

January 2022 - December 2022

- Interviewed engineers and designers to be recruited, divided and allocate tasks and performed code reviews
- Improving User Experience and building responsive web pages using ReactJs, Javascript, Strapi and Heroku