RISHABH SHARMA

857-423-9193 | Boston, MA • sharma.rishabh@northeastern.edu • LinkedIn •Github

EDUCATION

Northeastern University, Boston   **Dec 2025**
Mater of Science, Software Engineering Systems   4.0 / 4.0 GPA
Relevant coursework: Concepts of Object-Oriented Design, Data Science, Data Structure and Algorithm, Web Development

Visvesvaraya Technological University, **Bangalore**   **Aug 2019**
Bachelor of Engineering, Information Science

Relevant coursework: Concepts of Object-Oriented Design, Data Structure, OS, Operation Research, Algorithm

TECHNICAL SKILLS

Programming: Java, Swift, Html, CSS, React.js, Problem Solving, MySQL
Framework: Spring Boot, Spring MVC, Java Servlet, BootStrap, Redux, Oauth 2.0, JUnit, Mockito, Kafka, Rest Webservices
Tools: Github, Git, Jenkins, Jira, Eclipse, Firebase, FireStore, CocoaPods, Figma, Postman

PROFESSIONAL EXPERIENCE

Publicis Sapient, Bangalore, India: Software Engineer   **Jun 2021 – May 2023**
- Successfully implemented a microservices-based backend using Java Spring Boot, resulting in a 15% increase in system scalability and performance
- Developed responsive front-end components with React.js and Redux, improving user interface load times by 20% and enhancing overall user experience
- Implemented CI/CD pipeline using Jenkins, automating deployment processes and reducing release cycles from weeks to days
- Integrated Elasticsearch for efficient full-text search capabilities, improving search result relevance by 25% and query performance by 40%

Oracle Cerner, Bangalore, India: Software Engineer   **Sep 2019 – Aug 2020**
- Engineered "Sentinel" data channel security system, enhancing overall data security measures by 25%
- Leveraged Hadoop MapReduce framework to orchestrate distributed data processing across multiple nodes, achieving 40% reduction in data clustering latency
- Engineered fault-tolerant messaging channels using Apache Kafka, improving system reliability by 99.99% and reducing message loss
- Implemented load balancing algorithms, resulting in 35% increase in scalability

ACADEMIC PROJECTS

Student Management System   **Feb 2024 – Apr 2024**
- Architected and developed a scalable Student Management System backend using Java SpringBoot, handling student records and courses, and integrating with a MySQL database.
- Leveraged Elasticsearch for efficient data indexing and retrieval, boosting search performance by 30% and reducing data ingestion time by 25%.
- Designed and implemented core business logic for student enrolment, fee management, and attendance tracking focusing on Object-Oriented Design Principles to ensure robustness, scalability and maintainability employing factory methods and Singleton and Observer Design Pattern.
- Designed Used Stream API for data Processing and incorporated threading, concurrency to refine systems robustness and scalability.
- Developed the front-end using HTML, CSS, and React, enhancing accessibility by 20%.

RedWineRanker   **Feb 2024 - Apr 2024**
- Successfully completed RedWineRanker project individually, meeting timeline and delivering stellar presentation.
- Reduced dimensionality by 90% using PCA, extracting 10 key features for efficient model training
- Achieved 10% accuracy improvement over baseline models using Gradient Boosting, demonstrating strong predictive capabilities. F1-score of 0.85, precision of 0.90, and recall of 0.80 further validate the model's effectiveness.

Clima: WeatherAPP   **May 2024 – Jun 2024**
- Engineered high-performance iOS weather app using Swift 5.5 and UIKit. Optimized Core Location with custom algorithms, improving location accuracy by 15% and achieving 85% forecast precision via OpenWeatherMap API integration.
- Developed an efficient caching system using CoreData, reducing API calls by 40% and improving app responsiveness in low-connectivity environments
- Designed a dynamic UI with SF Symbols, utilizing UIKit Dynamics and Core Animation for fluid, weather-reactive interface transitions
- Optimized network operations through URLSession configuration and background fetch capabilities, resulting in 25% reduction in data usage and improved battery efficiency

OTHER WORK EXPERIENCE

Research Experience: Efficient Biometric Identification Scheme using Cloud Computing   **Sep 2018 – Apr 2019**
- Led a team for a paper presented at the 9th International Conference on Recent Engineering and Technology.