

# NEELKAMAL RANA

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[LinkedIn](#) — [GitHub](#) — [Portfolio](#)

## PROFILE

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Software Engineer with a strong foundation in full-stack development, backend systems, and cloud technologies. Proficient in Java, Spring Boot, React.js, and AWS, with experience building scalable APIs, microservices, and AI-integrated applications. Recently graduated, focused on intelligent systems and modern software architecture.

## EDUCATION

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**Pace University, New York, NY**

August 2023 – May 2025

Master of Science in Computer Science

Concentration: Software Development

GPA: 3.80/4.0

Courses: Data Structures and Algorithms, Parallel Computing, Artificial Intelligence, Full Stack Development

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, C++, HTML, CSS

**Frameworks:** Spring Boot, JPA/Hibernate, React.js, Node.js, Redux, AWS

**Concepts:** DSA, DBMS, System Design, Microservices, RESTful APIs

**Tools:** Git, Docker, Postman, VS Code, Android Studio, CI/CD

**Databases:** MySQL, OracleDB, MongoDB, PostgreSQL, DynamoDB

## PROFESSIONAL EXPERIENCE

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**Associate Software Engineer – HCLTech**

Nov 2021 – Aug 2023

- Designed and deployed a real-time courier tracking module used by 125+ companies, enabling tracking of 60M+ parcel statuses daily.
- Built a reusable JAR to transform EDI logistics data to JSON/XML and deployed it across partner systems.
- Migrated code from Camel to Java DSL, boosting shipment processing from 40M to 60M per day.
- Implemented Redis caching, reducing API response time and enhancing performance.
- Re-architected the data pipeline using ELK and RabbitMQ, increasing polling speed and system load capacity.

## PROJECTS

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**CyberSentinel** (*React.js, Flask, Python, BERT, MongoDB, AWS*)

[GitHub](#)

AI-powered cybersecurity platform that detects phishing, fraud, and suspicious activity in real time using NLP (BERT) and ML models. Features JWT auth, microservices, real-time alerts, and scalable cloud deployment. Used by teams to demonstrate security analytics for enterprise email traffic.

**Attendify** (*React, Flask, face\_recognition, OpenCV*)

[GitHub](#)

Face recognition-based attendance system that logs participants from uploaded screenshots. Includes dashboards, face enrollment, real-time summaries, and user filtering. Designed for meetings, online classes, and small team events.

**Move Easy** (*React.js, Node.js, MongoDB, Express, AWS*)

[GitHub](#)

Flexible logistics platform offering real-time moving and delivery services with transparent, usage-based pricing. Supports document-to-home relocations, live tracking, and vendor dashboards for small businesses. Designed with modular architecture for scalability.

**Sky Connect** (*React.js, Spring Boot, Dijkstra's Algorithm*)

[GitHub](#)

Web application that finds the shortest flight path between airports using Dijkstra's Algorithm. Provides step-by-step routing, total distance, and a user-friendly interface. Originally a Java CLI tool, now a react full-stack application.

**Swastha Sanchar** (*Android Studio, Jetpack Compose, Firebase*)

[GitHub](#)

Wellness-focused Android app supporting event organization, community engagement, and personal wellness tracking. Offers group interactions, cultural inclusivity, and push notifications for user engagement. Designed with Firebase-backed scalability and mobile-first UI.