

NEELKAMAL RANA

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

EDUCATION

Pace University, New York, NY

Aug 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

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

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

Concepts: DSA, DBMS, Low-Level Design, Microservices, RESTful APIs, OOPS, Kafka

Tools: IntelliJ, Git, Docker, MySQL Workbench, Postman, VS Code, Android Studio, CI/CD

Databases: MySQL, OracleDB, MongoDB, PostgreSQL, DynamoDB

PROFESSIONAL EXPERIENCE

Associate Software Engineer – HCLTech

Nov 2021 – Aug 2023

- Led the deployment of a real-time courier tracking module used by 125+ companies, enabling tracking of 60M+ parcel statuses daily.
- Created a reusable JAR for transforming EDI logistics data into JSON/XML, improving data onboarding speed by 30% across 50+ partner systems.
- Migrated codebase from Camel to Java DSL, boosting shipment processing volume from 40M to 60M per day.
- Optimized data retrieval by integrating Redis caching, improving API response time and reducing backend load.
- Redesigned the data pipeline using ELK and RabbitMQ, increasing polling speed from 2K to 5K records/sec and enhancing system load capacity by 60%.

PROJECTS

CyberSentinel (*React.js, Flask, Python, BERT, MongoDB, AWS*) [GitHub](#)

- Built an AI-powered cybersecurity platform that detected 95% of phishing and fraud attempts using BERT and Random Forest models.
- Deployed as microservices with JWT authentication, real-time alerts, and horizontally scalable architecture on AWS.
- Enabled security teams to analyze over 10K enterprise emails and visualize phishing patterns.

Attendify (*React, Flask, face_recognition, OpenCV*) [GitHub](#)

- Engineered a face recognition-based attendance system with 97% accuracy in identifying participants from uploaded screenshots.
- Incorporated dashboards, face enrollment, real-time summaries, and filters for meetings and virtual events.

MoveEasy (*React.js, Node.js, MongoDB, Express, AWS*) [GitHub](#)

- Architected a logistics platform offering real-time moving and delivery services with transparent, usage-based pricing.
- Supported 1,200+ bookings and 1,000+ document-to-home relocations through a scalable, modular backend.
- Implemented live tracking and vendor dashboards to streamline logistics for small businesses.

SkyConnect (*React.js, Spring Boot, Dijkstra's Algorithm*) [GitHub](#)

- Created a full-stack web application to calculate shortest flight paths between 5,000+ airports using Dijkstra's Algorithm.
- Delivered intuitive routing, total distance calculations, and a modern React frontend.
- Converted a legacy Java CLI tool into an interactive and scalable web solution.

Swastha Sanchar (*Android Studio, Jetpack Compose, Firebase*) [GitHub](#)

- Designed a wellness-focused Android app with Firebase-backed scalability and mobile-first experience.
- Empowered 500+ users to organize events, track goals, and engage in community-driven wellness activities.
- Integrated group interactions, multilingual support, and push notifications for continuous engagement.