

Nilanjan Roy

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TECHNICAL SKILLS

- **Operating Systems:** Unix, Linux(Ubuntu), Windows, MacOS
- **FrontEnd (UI/UX):** Angular, ReactJS, HTML, Bootstrap, CSS
- **BackEnd Technologies:** Java, JavaScript, Typescript, Python, NodeJS, JQuery, AJAX, JSON, C++, C#,
- **DBMS:** MySQL, Oracle DB, MS SQL, CSV, Postgre SQL, MongoDB, Hibernate
- **Frameworks, Build tools etc:** Spring Boot, Maven, Apache Tomcat, Kafka, Docker, Jenkins, Agile, CI/CD Pipelines, DevOps, Jira, Ongoing project on Machine learning (ML), Artificial Intelligence (AI), AWS & Chatbots.
- **IDEs:** Netbeans, Eclipse, Visual Studio Code, IntelliJ, STS(Spring Tool Suite)

WORK EXPERIENCE

➤ *Currently employed as Lab Proctor in Khoury College of Computer Science at Northeastern University.*

Frontend Developer/ Designer (Freelance)

May 2024- Aug 2024

Velozy - Remote

- Refined and debugged the application using React, React Native, and Node.js to improve functionality, with Ajax enhancing data handling, resulting in a 10% reduction in bugs and optimized time complexity.
- Revamped the UX/UI of the Velozy mobile app by creating wireframes in Figma and FigJam and developing low-fidelity prototypes in Moqups, leading to a 12% increase in user engagement and satisfaction.

Software Developer

Dec 2022 – Jul 2023

Cynet Systems - Noida, India

- Enhanced Cynet's mobile application performance by implementing REST APIs, Kafka for real-time data streaming, Docker for containerization, and React for responsive UI, achieving a 15% improvement in load speed and streamlining automated builds with Jenkins through CI/CD integration for efficient deployments.
- Led backend development in Java 18, with Agile Sprint runs, optimizing database connectivity and ORM efficiency by 20% using Spring MVC, Spring Boot, and Hibernate, reducing overall system latency by 25%.

Software Developer

Aug 2021 – Sep 2022

Mastech Digital - Noida, India

- Improved our Application Tracking System's backend refresh speed by 14% through Java, Agile methods, and consistent tracking with Jira; improved client-side processing using Ajax with JSP, cutting page load times by 18% and raising user engagement by 20%.
- Fortified the ATS application with seamless JavaScript and Node.js integration, monitored via Jira, leading to a 22% improvement in overall performance.

ACADEMIC PROJECTS

Pathfinder | Java, Ajax, HTML5, CSS, Bootstrap, Springboot, Hibernate, My SQL & Thymeleaf

- Crafted the algorithm and architecture of the software was in Python for a user-centric web application compatible with various operating systems, including Unix and Linux, like course selection portal.
- Refined user experience by integrating Thymeleaf with HTML5, CSS, and Bootstrap, yielding a 25% increase in user satisfaction and overall improvement in registration efficiency.

RestroManager | Java, SQL, NetBeans, SwingAPIs

- Freelance project created on Java, SQL, Swing APIs, Netbeans IDE and Microsoft SQL Server.
- A working standalone application to manage billings, seating and available inventory in the Restaurant.

StockOptimate | MSSQLServer, PowerBI, NodeJS

- Architected an ER Data Model and database for stock management, improving data accuracy by 20%. Constructed front end with React and Node.js for CRUD operations, enhancing data handling speed by 15%.
- Visualized data on Power BI, boosting understandability and decision-making efficiency.

Hospital Administration System | Java, SwingAPI, MySQL

- Created a standalone app for managing patient appointments and doctor data, with JAVA 20 and Netbeans IDE.
- Used Swing API and JDBC (MSSQL Server) for data management, reducing retrieval time by 35%.

EDUCATION

- **Northeastern University** - Boston, MA. Sep 2023 - Expected May 2025
Master of Science in Computer Software Engineering
- **Dr. A.P.J Abdul Kalam Technical University** - India May 2021 - Jun 2023
Masters of Business Administration (MBA) in Information Technology and Finance
- **Indira Gandhi National Open University** - India Sep2017- Dec2020
Bachelors in Computer Applications