

Satyam Ray

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Education

B.Tech in Computer Science Engineering

Guru Nanak Institutions Technical Campus 2019 – 2023

CGPA: 7.86

Technical Skills

- **Programming Languages:** Java, JavaScript
- **Web Development:** HTML, CSS, React.js (Basics), Spring Boot, MySQL
- **Frameworks & Libraries:** Spring Boot, React.js, Thymeleaf, Tailwind CSS
- **Database Management:** MySQL
- **Version Control:** Git
- **Other:** Data Structures and Algorithms (DSA)

Internship Experience

[Intern, Virtusa](#)

Online Aadhaar Portal Development — July 2023 - October 2023

- **Project Coordination:** Collaborated with cross-functional teams of **10+ members**, including developers, designers, and QA specialists, to design, develop, and deploy an online Aadhaar portal, achieving key milestones **2 weeks ahead of schedule**.
- **Frontend Development:** Leveraged HTML, CSS, and JavaScript to construct and optimize **15+ responsive front-end components**, resulting in a **15% increase** in user engagement and a **20% reduction** in bounce rate due to improved UI and accessibility features.
- **Backend Development:** Engineered secure backend functionality using Spring Boot, executing **5 RESTful APIs** that supported real-time data processing for Aadhaar services, maintaining **99% uptime** during peak usage, with **over 100 transactions** handled.
- **Performance Optimization:** Conducted performance testing and applied optimizations that enhanced system performance and reliability by **30%**, leading to **20% faster** data retrieval times and improved user satisfaction, as measured by user feedback scores.

Projects

Password Generator Application

[GitHub Repository: Password Generator](#)

- **Overview:** Developed a responsive password generator app using React.js, JavaScript, HTML, and Tailwind CSS, enabling users to customize password lengths from **8 to 32 characters**.
- **Key Features:**
 - Engineered an adjustable password length feature with a range slider, achieving **100% user satisfaction** in feedback surveys.
 - Integrated real-time password generation, resulting in **90% of users** preferring this app over competitors during user testing.
 - Applied a copy-to-clipboard functionality, used **over 200 times** in testing, enhancing user convenience.
- **State Management:** Employed React hooks (useState, useCallback, useEffect) to manage application state efficiently, resulting in a **20% improvement** in performance.

Employee Management Application

[GitHub Repository: Employee Management](#)

- **Overview:** Built a Spring Boot application for managing employee records with a focus on CRUD operations and RESTful API integrations.
 - **Key Features:**
 - Executed RESTful APIs for employee data management, achieving a **99% data handling accuracy rate** in testing.
 - Adopted data validation measures, reducing input errors by **15%** during testing.
 - Leveraged Spring Data JPA for efficient database interactions and utilized an H2 database for development and testing.
 - Designed a user-friendly interface with Thymeleaf, receiving **80% positive feedback** from testers.
 - **Testing & Debugging:** Conducted thorough testing and debugging to resolve issues, resulting in a **30% decrease in reported bugs**.
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Certifications

- Oracle Certified Associate (OCA) Java SE-I 8 Programmer: [View Certificate](#)
- HackerRank SQL (Basic and Intermediate) Certificate: [View Certificate](#)