

Sonali Barik

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EDUCATION

Gandhi Academy of Technology and Engineering

Master of Computer Application; CGPA: 8.64

Berhampur, Odisha

2023-2025

Sashi Bhushan Rath Government Women's College

Bachelor's in Computer Science, CGPA: 8.50

Berhampur, Odisha

2020 - 2023

SKILLS SUMMARY

Programming Languages: Strong programming skills in Core Java and Advanced Java (OOP, memory management, multithreading, exception handling and JSP, Servlets)

Backend Technologies: Skilled in Spring Framework (Spring Core, Spring MVC, Spring Boot, Spring Data JPA, Hibernate ORM, Microservices) for building RESTful APIs

Testing: Strong grasp on Postman for API testing

Built-in Tools: Familiarity with build tools like Maven for building scalable applications

Web Technologies: Familiar with HTML, CSS and React Js for understanding of responsive design

Databases: Skilled in MySQL, database design, normalization, indexing, query optimization, complex SQL queries

Tools & IDEs: IntelliJ IDEA, Visual Studio Code, Git & GitHub

Algorithms & Data Structures: Solid foundation in DSA, focused on time-space complexity and problem-solving

Soft Skills: Willingness to learn and adapt to new technologies, Problem-solving, Attention to detail

PROJECTS

Student Management System | [\[GitHub\]](#)

- Developed a RESTful web app to manage student data with full CRUD functionality.
- Used Spring Boot, Spring Data JPA, MySQL, REST APIs, JavaScript and Maven for backend development.
- Ensured proper functionality through manual testing and API verification using Postman.
- Ensured smooth data operations with robust API design and database integration.

Bubble Sort Visualizer | [\[GitHub\]](#)

- Built an interactive visualizer to demonstrate the Bubble Sort algorithm.
- Used Java for logic and HTML/CSS for front-end visualization.
- Helped users understand sorting concepts through real-time animations.
- Enhanced learning experience with clean UI and responsive design.

WORK EXPERIENCE

Full Stack Developer Intern | EY Global Delivery Services & AICTE Govt. of India | [\[GitHub\]](#) | [\[LINK\]](#)

03/2025 – 04/2025

- Participated in a government-backed internship program focused on full-stack development fundamentals.
- Gained exposure to MERN stack concepts, collaborative development, and version control tools.
- Attended hands-on sessions on real-world project architecture and full-stack best practices.

AI Intern | AICTE Govt. of India & Microsoft and SAP | [\[GitHub\]](#) | [\[LINK\]](#)

12/2024 – 01/2025

- Completed a guided internship program on AI fundamentals, machine learning, and real-world applications.
- Explored Python libraries such as NumPy, Pandas, and Scikit-learn through mentorship and demo projects.
- Understood how AI models are integrated into software applications through APIs.

CERTIFICATES

Java (HackerRank) – Verified skills in Java syntax, OOP, and problem-solving | [\[LINK\]](#)

Problem Solving (HackerRank) – Tested on DSA fundamentals and logic building | [\[LINK\]](#)

Java Classes and Objects (Coursera)– Covered OOP principles, class design, and constructors in Java | [\[LINK\]](#)

Software Engineering & Agile Development (Infosys Springboard)– Agile methodology, SDLC | [\[LINK\]](#)

NPTEL Certification in Internet of Things (IoT) – Gained foundational knowledge of IoT architecture, communication protocols, sensors, and real-world applications in smart systems. | [\[LINK\]](#)

NPTEL Certification in Cloud Computing – Understood cloud service models (IaaS, PaaS, SaaS), virtualization, data storage, deployment models and cloud environments. | [\[LINK\]](#)

NPTEL Certification in Computer Architecture – Studied processor design, instruction sets, pipelining, memory hierarchy, and performance optimization techniques used in modern CPUs. | [\[LINK\]](#)