

# Sourabh Sinha

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Git hub - <https://github.com/sourabhsinha0510>

Portfolio: <https://digitalportfolio-8cdc.onrender.com>

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## EDUCATION

### Galgotias University

Masters of Computer Application

Noida, Uttar Pradesh

September 2023- July 2025

### Mrs KMPM Vocational College

Bachelor of Computer Application

Jamshedpur, Jharkhand

August 2020 – August 2023

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## SKILLS

- Languages: Asp.Net, Java, JavaScript, Node JS, React JS
  - Technologies: Spring Boot 3, Spring Framework 6, Microservices, Kubernetes, Docker,JWT
  - Databases: Mongo DB, Redis , MySQL , PostgreSQL
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## EXPERIENCE

- Junior Software Developer

### Digitide Solutions| Jamshedpur, Jharkhand |

- Working on ASP.NET / ASP.NET Core to develop and maintain web applications, implementing features, fixing bugs, and improving performance.
- Collaborating with the team on **API integration, database operations (SQL Server), and UI improvements**, ensuring smooth deployment and quality delivery.

- Software Developer Intern

### International Academy of Computer Training (IACT) | Onsite – Jamshedpur, Jharkhand | June 2022 – August 2022

- Designed and developed a Nursing Home Management System using Java and database technologies
- Engaged in the full software development life cycle, from requirements gathering to deployment.

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## PROJECTS

- **Async System Project**

### *Asynchronous Task Processing System*

- Built an async system to execute background tasks and improve application responsiveness.
- Implemented task queue handling, scheduling, and live status tracking (Pending/Running/Completed).
- Technologies used: Java, Multithreading/Executor Framework, Database (MySQL/MongoDB)

- **Graphical Password Using Image Segmentation**

*Web-Based Secure Authentication System*

- Developed a graphical password system using image segmentation to enhance login security.
- Led server-side and client-side development for secure user authentication.
- Technologies used: **HTML, CSS, JavaScript, MongoDB, Node.js, Python**

- **Nursing Home Management System (NHMS)**

*DBMS-Based Healthcare Protocol*

- Led a team in developing a full-stack software solution for patient registration, healthcare professional appointments, and organizational data management.
- Technologies used: **Java (AWT, Swing), JDBC, ODBC, MySQL**

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## PUBLICATION

- **Conjugation of Graphical Password Using Image Segmentation**

*Published in Elsevier SSRN Journal*

- Authored and presented a research paper introducing a secure graphical password mechanism based on image segmentation to improve authentication strength and user experience.
- DOI: <https://dx.doi.org/10.2139/ssrn.4997226>

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## CERTIFICATIONS

- **8th International Conference on Innovative Computing and Communication (ICICC-2025) –**  
Presented research on graphical password authentication.
- **Big Data Computing –** Completed Certification from **Indian Institute of Technology (IIT) Kanpur**
- **OCA – SE Java Certified Associate – Oracle**