

Sourabh Sinha

Email- sourabhsinha0510@gmail.com

LinkedIn-<https://linkedin.com/in/sourabh-sinha-7b5a9222a>

Phone- 8797798235

Github - <https://github.com/sourabhsinha0510>

EDUCATION

Galgotias University

Noida, Uttar Pradesh

Masters of Computer Application

September 2023- July 2025

Mrs KMPM Vocational College

Jamshedpur, Jharkhand

Bachelor of Computer Application

August 2020 – August 2023

SKILLS

- **Programming Languages:** Proficient in Java (Core), and basic Python
 - **Web Development:** Skilled in HTML, CSS, JavaScript, React.js, Tailwind CSS, and Node.js
 - **Backend & Frameworks:** Experienced with Java-based frameworks including Spring, Spring Boot; familiar with REST API development
 - **Deployment & Build Tools:** Familiar with Render for cloud deployment; experienced in using Maven and Docker for project and container management
 - **Android Development:** Proficient in Android application development using Java and Android Studio
 - **Database Technologies:** Experienced with Oracle SQL and MySQL; proficient in using Oracle SQL Developer
 - **IDEs & Tools:** Skilled in Visual Studio Code (VS Code), IntelliJ IDEA, Eclipse, and Oracle SQL Developer
 - **Office Tools:** Proficient in Microsoft Office Suite – Word, Excel, PowerPoint, and Access
 - **Soft Skills:** Strong written and verbal communication, excellent problem-solving skills, quick learner, and capable of working both independently and collaboratively in team environments
-

EXPERIENCE

- Web Development Intern
Prodigy Infotech | Remote | *August 2024 – September 2024*
 - Developed and maintained responsive web applications using modern web technologies.
 - Collaborated with cross-functional teams to design user-friendly interfaces and ensure smooth project delivery.
 - Gained hands-on experience with front-end development and version control systems.
- Cyber Security Analyst Intern
TATA Consultancy Services | Remote | *March 2024 – April 2024*
 - Assisted in analyzing and enhancing Identity and Access Management (IAM) systems.
 - Supported security audits, user access reviews, and compliance with cyber security policies.
 - Gained exposure to enterprise-level security tools and practices
- Data Management Intern
TATA Steel Utilities & Infrastructure Service Ltd | Onsite – Jamshedpur, Jharkhand | *March 2023 – April 2023*

- Managed and maintained large datasets using SQL Server.
 - Assisted in data cleaning, transformation, and reporting for operational efficiency.
 - Contributed to automating routine data tasks, improving data accessibility and reliability.
- **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.
 - Improved system functionality by integrating user feedback into design enhancements.
-

PROJECTS

- **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**
- **Portfolio Android App**
Android-Based Digital Portfolio
 - Created a mobile application for showcasing personal and professional information in an interactive portfolio format.
 - Technologies used: **Java, Android Studio**
- **Digital Vault**
Secure Document Storage Platform
 - Developed a secure web application that enables users to upload, store, and access personal documents, protected by multi-layered authentication.
 - Integrated secure login mechanisms and data privacy features to restrict unauthorized access
 - Technologies used: **React.js, Tailwind CSS (frontend); Spring Boot, Spring, Maven (backend); MongoDB (database).**
- **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**
- **Hotel Management System (HMS)**
DBMS-Based Hotel Booking Platform
 - Led a team in designing and implementing a comprehensive hotel booking system, enabling users to search for and book accommodations efficiently.
 - Technologies used: **Java (AWT, Swing), JDBC, ODBC, MySQL**
 -
- **Student Database Android App**
Database-Driven Mobile Application

- Engineered an Android application for educational institutes to manage and store student records efficiently.
 - Technologies used: **Java, Android Studio, SQLite/MySQL**
 - **Hand Gesture Recognition System**
Machine Learning-Based Computer Vision Project
 - Built a system that detects and classifies hand gestures using image processing and machine learning algorithms.
 - Technologies used: **Python, OpenCV, Machine Learning Libraries**
 - **Weather Forecast Web App**
Real-Time Weather Application
 - Developed a web application that provides real-time weather data including temperature, humidity, and forecasts based on locations.
 - Technologies used: **HTML, CSS, JavaScript, OpenWeatherMap API**
-

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>
-

CERTIFICATIONS

- **8th International Conference on Innovative Computing and Communication (ICICC-2025)** – Presented research on graphical password authentication.
- **Summer/Winter Internship – TATA Consultancy Services (TCS)**
Worked on Identity and Access Management (IAM) Software – March 2024 to April 2024
- **Summer/Winter Internship – International Academy of Computer Training (IACT)**
Worked on GUI Development using Java and SQL Server – June 2022 to August 2022
- **Summer/Winter Internship – TATA Steel Utilities & Infrastructure Service Ltd**
Worked on SQL Server Data Management – March 2023 to April 2023
- **Summer/Winter Internship – Prodigy Infotech**
Worked on Web Development Projects – August 2024 to September 2024
- **Big Data Computing** – Completed Certification from **Indian Institute of Technology (IIT) Kanpur**
- **OCA – SE Java Certified Associate – Oracle**
- **Power BI - Microsoft**