

Shalini Roy

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EDUCATIONAL QUALIFICATIONS

- B. Tech in Computer Science & Engineering with specialization in Education Technology
VIT Bhopal University, Expected Graduation: 2026, CGPA – 8.66

SKILLS

- Technical** - Java, JavaScript, HTML, CSS, Python, Dart
- Frameworks** – Android SDK, OkHttp, Flutter
- Database** – Firebase, MySQL
- Non-Technical** - Learning agility, Punctuality, Teamwork, Effective communication, Problem solving

EXPERIENCE

SmartScannerPill Box – [\[App\]](#) (Blue Planet InfoSolutions Pvt. Ltd.: Nov, 2024 - Ongoing)

- Enhanced QR Code Processing:** Debugged and optimized QR scanning using ZBar Library, Android Camera API, and Java, ensuring accurate medicine identification and validation.
- Improved SOAP-based web services:** Used KSOAP2, HttpTransportSE, and REST APIs for efficient medicine retrieval.
- Strengthened Medicine Verification:** Implemented robust validation logic with Android SDK, Java, and SQLite, preventing incorrect medicine selection and ensuring patient safety.
- Improved UI & UX for Medicine Display:** Fixed UI inconsistencies and optimized medicine list rendering using Android XML and RecyclerView.
- Implemented Network & Session Handling:** Ensured seamless connectivity with Android ConnectivityManager, NetworkCapabilities API, and secure session validation with SharedPreferences.
- Refactored Background Tasks:** Optimized AsyncTask, Threading, and Java Concurrency for improved performance and reduced response time in fetching and displaying medicine data.
- Technologies Used:** Java, XML, SOAP API, JSON, Android SDK, SQLite

PROJECTS

FindYourDeal – [\[GitHub\]](#)

- Designed and developed a **shopping app prototype** which deals with e-shopping concept.
- Provides a one-time sign-in process, detailed product descriptions, and a comprehensive shopping cart feature.
- Additionally, the app supports wish listing, provides detailed product information, and ensures accessible account information for all users.
- Technologies Used:** Dart, CMake, C++, Swift, HTML.

EduWeb – [EduWeb](#)

- Developed an **educational website** featuring a home page with a student forum, study aids, assignments, and edutainment.
- Created graphics, including icons and banners, to enhance visual appeal.
- Implemented animations to improve user interaction and engagement.
- Technologies Used:** HTML, CSS

AWARDS & ACHIEVEMENTS

- Received **Raman Research Award** with a cash prize of **Rs. 5,000/-** for publishing research Article.
- Won the **Best Paper Award at ICRP 2023**, organized by Springer Nature for the research paper "**The Utilization of AI in Renewable Energy Systems**".
- Patent** - "**Air Cooler**" officially granted by the Intellectual Property Rights (IPR) office of the Government of India.

RESEARCH & PUBLICATIONS

- Shalini Roy, Harshit Gautam, Dr. Lakshmi D, Sachin Gupta, Neelu Nagpl, Neelam Kessarwani, "Utilization of AI in Renewable Energy Systems," in Springer Nature's 3rd International Conference on Renewable Power (ICRP-2023)
- Harshit Gautam, Shalini Roy, Dr. Lakshmi D, Sheersh Garg, Neelam Kessarwani, Neelu Nagpl, "Exploring the Integration of Cyber-Physical Systems and IoT in Smart Grid Technologies," in Springer Nature's 3rd International Conference on Renewable Power (ICRP-2023)
- Shalini Roy, Harshit Gautam, Dr. Lakshmi D, "Semantic Web Technologies and Applications in Artificial Intelligence of Things," book chapter on IGI Global

ADDITIONAL

- Certificates and Training:**
 - Cloud computing (NPTEL)- April 2024
 - Applied Machine Learning in python (Coursera) – Dec 2023
 - AWS Educate Badges (3) – March 2025