

Shubhagaman Singh [Software Engineer/Full-Stack Developer]

Summary:

Enthusiastic and innovative-driven **full-stack, web and mobile app developer** with a strong foundation in designing and deploying real-world, user-centric applications. Skilled in Python, Django, Android, and AI technologies, with hands-on experience building award-winning and socially impactful projects. Adept at working both independently and collaboratively to deliver scalable, high-quality solutions within deadline and scope.

Technical & Soft Skills:

- **Programming:** C/C++, Java, Python, PL/SQL, ASP.NET, JavaScript, HTML, CSS, Tailwind CSS, PHP, NLP.
- **Database Technologies:** SQL, MySQL, MS SQL, MongoDB, SQLite.
- **Data Modelling & Visualization:** Schema design, Power BI, Excel.
- **Development & Designing Tools:** Django, Flask, Android, Photoshop, CorelDraw, PageMaker, MS Office.
- **Version Control & Management:** GitHub, Tally, Excel, Analytics.
- **Other:** Problem Solving, Adaptability, Time Management, Leadership, Team Collaboration, Creative Thinking, Self-Motivation, Project Management.

Projects:

ASHWINI (Jan 2025 - Present)

Technologies: Python, SQLite, Django, AI Tools, Flask, Rasa, HTML/CSS, JavaScript.

- AI-based healthcare platform for disease prediction from symptoms and PDF medical reports.
- Built a custom chatbot using **Rasa and NLP** for user assistance, intent recognition, and dynamic responses.
- Integrated **Flask** for backend medical report processing and parameter extraction.
- Managed user data and medical history using **SQLite**, with a responsive frontend built using HTML, CSS, and Tailwind.

Wi-Fi Controlled Robo Car (2024)

Technologies: ESP8266, Arduino IDE, HTML, Motor Driver Module, Sensors.

- Developed a smart robotic car that can be controlled wirelessly over Wi-Fi using a web-based UI.
- Integrated NodeMCU for connectivity, programmed movement logic, and used real-time command transmission.
- Demonstrated practical application of IoT architecture in mobility and automation.

Hostel Management System (2024)

Technologies: Python, Django, HTML, MySQL, Bootstrap, jQuery.

- Developed a web-based system to automate room allotment based on student branch, year, and course.
- Implemented student login for issue reporting and admin panel for backend management.
- Awarded **1st place in Hackfest 2024** for innovation and functionality.

Farmers to Customers (2023)

Technologies: Android, Java, XML, SQLite, MySQL

- Developed an Android-based e-commerce application enabling farmers to sell fresh produce directly to customers.
- Implemented **user authentication**, product listing, and time-slot-based delivery scheduling.
- Used **SQLite** for local data caching and **MySQL** for real-time remote database management.
- Designed user-friendly UI using **Android XML layouts**, integrating custom adapters and recycling views. Built backend logic for order placement, inventory handling, and role-based dashboards.

E-Banking Solutions (2022)

Technologies: Java, MySQL, NetBeans, JDBC

- Developed a secure online banking platform supporting fund transfers, account management, and transaction history.
- Integrated **JDBC** for secure connectivity between the frontend and **MySQL** database.
- Built and tested web interfaces using **Java and NetBeans**, ensuring smooth user interactions.

Mini Radar System (2021)

Technologies: C, Ultrasonic Sensor, Servo, Arduino, Processing (UI).

- Built radar simulation using **Arduino** and **ultrasonic sensor** for real-time object detection. Visualized scanning results with custom UI in **Processing**.
- Won **1st place in CSE Project Exhibition 2021** for innovation in embedded systems.

Experience:

IBM SkillsBuild

July 2025 – Present | Delhi, India

- Pursuing advanced training in **Cybersecurity, AI, and Cloud Computing** as part of IBM's professional upskilling program.
- Completed multiple hands-on certifications.
- Gained practical exposure to:
 - Threat modeling, phishing & malware prevention, DDoS mitigation.
 - Data privacy, system hardening, and secure cloud practices.
 - Conversational AI design & chatbot deployment.
- Worked on simulated real-world scenarios and built security-first solutions

Samsung Innovation Campus

IOT Technical Trainee

Aug 2024 – Oct 2024 | DDU, Gorakhpur, India

- Successfully completed a hands-on IoT training program focused on smart systems and device automation.
- Built a **Wi-Fi Controlled Robo Car** using **ESP8266 (NodeMCU)**, motor driver modules, and sensor components.
- Implemented real-time control of the robotic vehicle via web interface using **IoT protocols**.
- Gained practical knowledge of embedded systems, wireless communication, and project-based teamwork.

Softpro India Computer Technologies Pvt Ltd.

Android Development Apprentice

Sep 2021 – Feb 2022 | Lucknow, India

- Developed and tested 3+ Android mini apps using **Java and XML**, simulating real-world business use cases.
- Collaborated with a team of 5 to build a fully functional prototype for a local client demo.
- Reduced app loading time by ~20% through optimized layouts and SQLite data handling.
- Gained hands-on experience with Android Studio, Firebase integration, and UI/UX best practices.

Techpile Technologies Pvt Ltd.

Web Development Intern (Python & Django)

May 2020 – Jul 2020 | Lucknow, India

- Created 2 web applications from scratch using **Django, HTML/CSS**, and **MySQL**, following the MVC pattern.
- Built secure login/authentication systems and implemented CRUD operations for project modules.
- Participated in weekly code reviews and improved Django ORM query performance by 15–25%.
- Contributed to client project documentation and deployment planning.

Education:

B.Tech. in Computer Science and Engineering (Graduation)

(Sep 2022 – Jul 2025)

Dr. APJ Abdul Kalam Technical University

Diploma in Computer Science and Engineering

(Sep 2019 – Aug 2021)

Board of Technical Education, Uttar Pradesh

Diplomas in Office Automation & Computer Applications

(2015 – 2016)

Dr. B. R. Ambedkar Computer Saksharata Mission

Achievements:

- **Patent (2025)** – Filed a Patent [Project: **ASHWINI**]
- **Hackfest 2024 Hackathon (2024)** – 1st Place
- **Computer Science Project Exhibition (2021)** – 1st Place

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