

OM TIWARI

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Software Developer

Software Engineer with experience developing scalable applications and interactive user interfaces. Skilled in Python, C++, and C, with hands-on work in building web applications and data-focused tools. Strong foundation in algorithms, data structures, and core software engineering principles, with familiarity in modern development tools.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C, SQL
- **Frameworks/Libraries:** Django, Tkinter, OpenCV
- **Tools & Platforms:** Git, GitHub, AWS
- **Others:** OOP, Data Structures & Algorithms

PROFESSIONAL EXPERIENCE

Cloud Architecting Intern, AWS Academy Graduate

June 2025-July 2025

- Completed the **AWS Academy Cloud Architecting course**, gaining expertise in **cloud infrastructure design, best practices, and solution architecture**.
- Hands-on experience in **building and deploying scalable applications** on AWS, implementing **VPCs, EC2, IAM, S3, and RDS**.
- Learned to apply **AWS Well-Architected Framework** principles for security, reliability, and cost optimization.
- **Skills Acquired:** Architecting Solutions on AWS, Cloud Infrastructure Design, AWS Best Practices.

PROJECTS

Patient Depict System – Web-Based Patient Portal (2025)

- Built a secure Django application that lets **admins onboard doctors and patients**, send login credentials through mail, and manage access.
- Designed patient and doctor dashboards where doctors upload text-only reports and update patients real-time status.
- Added a tokenized, read-only public status page so families can check updates without exposing sensitive data.
- Implemented **audit logging, role-based permissions, and email automation** for reliable onboarding and password resets.
- **Technologies:** Django, Python, SQLite, HTML/CSS, SMTP, RBAC, Audit Logging

Smart Traffic – Automated E-Challan Generator (2023)

github.com/omtiwari17/Smart_Traffic_System

- Developed a **web-based traffic management system** that auto-detects violations and generates challans, reducing manual effort by 75%.
- Implemented **SMTP automation** to securely deliver e-challans via email, improving enforcement speed and reliability.
- Designed backend using **Java Servlets and SQL** for efficient data storage and retrieval.
- **Technologies:** HTML, Java Servlets, SQL, DBMS

Find My Book - Smart Search Tool (2025)

github.com/omtiwari17/Find_My_Book

- Developed a **desktop application** that identifies books from cover images using **OCR, fuzzy logic, and image preprocessing**.
- Achieved 85% accuracy by integrating **OpenCV, Tesseract OCR, FuzzyWuzzy, and PySpellChecker** for text extraction and correction.
- Implemented login/signup, dashboard, and API-based search features using **Open Library API** and **MySQL**.
- **Technologies:** Python, Tkinter, OpenCV, Tesseract OCR, FuzzyWuzzy, PySpellChecker, MySQL, Open Library API

EDUCATION

Bachelor of Technology, CSE

2022-2026

Medicaps University - CGPA: 7.14/10.0

Higher Secondary, CBSE

2021-2022

Carmel Convent Hr. Sec. School - Percentage: 72