AMIT SHARMA

Software Developer

8875910376 ☎

amitsharmaas2003@gmail.com ✉

Jaipur 🏠

SUMMARY

Passionate and dedicated Software Developer with 2 years of experience in building user-friendly and efficient applications. Skilled in Python, JavaScript, and database management, with a strong focus on creating smooth, secure, and scalable systems. Enjoy solving problems, optimizing performance, and working with new technologies to deliver innovative solutions that make a difference. Always eager to learn and grow, bringing creativity and efficiency to every project.

EDUCATION

Apex College

Master of Computer Application
2023-2025

S. S. Jain Subodh College

Bachelor of Computer Application
2020 –2023

SKILLS

- **Frontend Technologies:**

  HTML, CSS, JavaScript,React

  Tkinter (for Python-based GUI applications)

- **Backend Technologies**

  Python, Java, C, Node.js, Php

- **Database Technologies:**

  MySQL, MongoDB,Firebase,supabase

- **Cloud Computing Technologies :**

  AWS,Azure,Google Drive,Vercel

- **Version Control:**

  Git & GitHub

- **Security & Encryption:**

  Algorithms: AES, RSA, CBC mode, SHA-256

- **UI/UX Design:**

  Tools: Figma, Adobe XD

- **Operating Systems:**

  Windows,Linux,ios

PROFESSIONAL EXPERIENCE

Python Developer

3handshakePvt.Ltd | 10/2023-05/2025

- Created unit tests for existing and new python code using Py Test framework.
- Resolved customer issues by establishing workarounds and solutions to debug and create defect fixes.
- Programmer applications and tools using object-oriented languages with goals of code abstraction, stability and reuse.
- Analyzed code and corrected errors to optimize output.
- Improved and corrected existing software and system applications.

Python Developer

AutopePvt.Ltd | 10/2022-08/2023

- Evaluated various libraries and frameworks to identify best solutions for specific requirements.
- Deployed applications on Amazon Web Service Platform using Elastic Beanstalk service.
- Introduced cloud-based technologies into Python Development to expand on-premise deployment options.
- Integrated object-oriented design and development techniques into projects to support usability goals.

Teaching Experience

Computer Teacher(Welkin Academy | 2023 – 2025)

- Taught Computer Science to classes 11th and 12th, covering programming, algorithms, and database concepts.
- Prepared students for academic exams and competitive programming challenges.
- Conducted practical sessions and guided students in project-based learning.

DMRC Project :

Worked on the **DMRC Smart Locker System**, integrating Twilio API for OTP-based authentication and secure user verification. Implemented **payment gateway** integration for seamless transactions and added **DMRC locker functionality** to manage smart locker bookings. Integrated **map** APIs to enhance user navigation and improve accessibility within the application.

IRCTC Payment Gateway :

Key Features

1. **Advanced Security Implementation :**
   Fortified the gateway's security by implementing industry-standard encryption algorithms like **AES-256 and RSA** to protect sensitive transaction data, both in transit and at rest

2. **Integrations :**
   Spearheaded multiple complex integrations, establishing secure connections with major **banking partners and merchant acquirers, while also expanding payment options through third-party** services like **VoucherGram** and **Advantage Club**.

3. **Core Feature Development :**
   Architected and built essential modules from the ground up, including a complete **refund system**, a **real-time transaction monitoring dashboard**, and functionality for **recurring payment mandates.**

Backup and Recovery Tool :

Key Features

1. **Multiple Backup Strategies:**
   Implemented support for **Full, Incremental, and Differential backup methods**, offering a flexible balance between **recovery speed** and storage efficiency.

2. **Automated Scheduling:**
   Created a **powerful job scheduler to automate backup** tasks at predefined intervals, eliminating the need for manual intervention.

3. **Flexible Cloud & Local Storage:**
   Architected the tool to seamlessly connect with various cloud storage providers **Google Drive,AWSS3** well as local servers.

4. **Recovery:**

   Easily **restore** your data to any previous version. The tool gives you the choice to recover everything at once or select specific files and folders to **restore quickly**.

5. **End-to-End Encryption:**

   Integrated strong **AES-256 encryption** to secure all backup data, ensuring confidentiality both during transit and at rest.

School ERP System

1.Student Lifecycle Management:

Created an end-to-end module covering the entire student journey from **online admissions** and registration to digital record-keeping, class promotions, and alumni management.

2.Academic & Examination Module:

Designed a powerful system for creating dynamic timetables, **scheduling examinations**, **managing grades**, and automatically generating customizable digital report cards.

3.Advanced Fee Management:

Engineered a secure and flexible fee management module with features like dynamic fee structure creation, **manual fee entry and tracking, automated invoicing,** and **real-time defaulter reporting**.

4.Human Resource & Payroll System:

Developed a comprehensive HR module to **manage staff profiles, attendance**, **leave requests,** and **automated payroll processing** with **salary slip generation.**

5.Expense Tracking & Categorization:

Created a dynamic system for logging all **expenses** and assigning them to predefined categories **administrative, utilities, academic,** maintenance for clear financial oversight.

AIM - Cafe Management System

Key Features

1.Easy Billing System:

Quickly generates **bills** for customers by instantly entering orders, including any **discounts** and taxes.

2.Customer Display Screen (CDS):

3.Digital Kitchen Order Ticket (KOT):

4.Simple Menu Management:

Priya Tour and Travels | Online Booking Platform

Key Features:

- **Engineered** A full-stack booking platform enabling customers to browse, select, and book tour packages and taxi services directly online.

- **Developed** A fully responsive user interface, ensuring a seamless and intuitive booking experience across all devices.

- **Implemented** A comprehensive booking and inquiry system to capture customer details, directly streamlining the sales and reservation process.

- **Optimized** platform performance by compressing assets and refining code, resulting in faster page load times.

Future Goals & Innovations

- **Smart Vehicle Locker & Security System(FutureInnovation):**

  In the future, I aim to develop a **Smart Vehicle Locker & Security System** that enhances vehicle safety by integrating **real-time monitoring, auto-lock functionalities, and intelligent alerts**. This system will revolutionize vehicle security by ensuring that only authorized users can access and operate the vehicle while proactively preventing theft and unauthorized access.

  Key Features & Functionalities :

  - **Real-Time Activity Monitoring -** Tracks all activities of bikes and cars and sends updates to the user's mobile device.

  - **Auto Lock & Unlock Functionality -**Allows users to enable or disable the vehicle lock remotely via the app.

  - **Unauthorized Access Alerts -** If an unauthorized person attempts to unlock or start the vehicle, an immediate alert will be sent to the mobile app.

  - **Offline Security Mode -** In case of no internet connectivity, the system will store the intrusion data and send alerts via SMS once the network is restored.

  - **Permission-Based Ignition System -** The vehicle will only start when the user grants permission via the app, ensuring complete control over access.

  - **Tamper Detection & Direct Alerts -** If someone tries to damage the security system (e.g., cutting wires or sensors), an instant alert will be displayed in the software.
  - **Real-Time Traffic Violation Alerts –** Notifies users immediately if they break traffic rules, such as signal jumping, overspeeding, or wrong parking.

  - **AI-Based Predictive Alerts –** Warns users in advance about red lights, speed limits, and other road regulations to prevent violations.

  - **Over-Speed & Driving Behavior Monitoring –** Continuously tracks vehicle speed and detects reckless driving patterns.

  - **Automated Fine System –** If a violation occurs, the system records it and syncs with traffic police databases for fine processing.

  - **Authorized Access for Law Enforcement –** Only authenticated traffic police officers can log in to view and process fines.
  - **Comprehensive Vehicle Compliance Monitoring –** Ensures the vehicle has valid insurance, pollution certificates, and driving permits through automated verification.

  - **Fully Automated & Cloud-Integrated –** Stores all data securely and provides real-time insights for both users and traffic authorities.

This high-speed, AI-driven security solution will bring a new level of intelligence to the vehicle industry, ensuring enhanced safety, reliability, and real-time monitoring for vehicle owners. 🚀