KAMAL. K

PYTHON FULL STACKE DEVELOPER

MOBILE :+91 8754245838
LINKEDIN: k. kamal
GitHub: jqkamal
EMAIL: ramkamal5886@gmail.com
👤 PORTFOLIO
LOCATION: CHENNAI, TAMIL NADU.

OBJECTIVE :

I am a motivated and detail-oriented Computer Science graduate with a strong foundation in python, SQL, and database management. Eager to learn and grow in a collaborative environment while ensuring data integrity and optimizing database performance to support team.

Seeking an entry-opportunity to apply my skill and knowledge and continue learning and growing with a dynamic organization.

TECHNICAL SKILLS AND SUMMARY:

Front-end Technologies : HTML, CSS, JavaScript, React.js

Python Technologies : Python Basics, Object-Oriented Programming (OOP. Python Dictionaries.
Tkinter: Built into Python, it provides basic GUI components.

Back-end Technologies : Django framework, Flask. API

Relational databases : SQL, MySQL, SQLite3.

Operation System : Windows 7 to 11.

IDEs & Tools : MS offices, SQL workbench, PyCharm, vs code,
Backend (Table Mapping Tool: DB designer), python IDEs, Git version control.

SUMMARY:

FRONT-END: (HTML, CSS, JavaScript, React.js)

JavaScript: Adds interactivity and dynamic behaviour to web pages.

React.js: A JavaScript library for building user interfaces with reusable components.

Python: Basics: Data types, control structures, functions, and modules.

Object-Oriented Programming (OOP): Classes, inheritance, and encapsulation.

Tkinter: Built into Python, it provides basic GUI components.

Tkinter is a built-in Python library used for creating graphical user interfaces (GUIs). It provides a set of tools and components that allow developers to create windows, dialogs, buttons, labels, text entry fields, and other GUI elements in their Python applications. Tkinter is based on the Tk GUI toolkit, which is a popular and widely used toolkit for creating GUIs.

Database: - SQL, MySQL, SQLite3, Mapping Tool: DB designer

- Join operations, Views, Group Functions, Command Functions, Stored Procedure. Communication, Teamwork, Problem-Solving Adaptability is best qualification

SOFT SKILLS:

- Problem Solving and Critical Thinking
- Attention to Detail and Accuracy
- Collaboration and Teamwork
- Time Management and Prioritization
- Adaptability and Flexibility

WORKING EXPERIENCE:

Freelancing:

Go Travel – July-2024

Role: Backend (word with python, Django, SQLite3)
Project: New travel website
Client: traveling company

SUMMARY:

A travel company website is a digital platform designed to assist users in planning, booking, and managing their trips. It typically features:

1. Destination Information: Highlights popular destinations with details about attractions, activities, and cultural insights.
2. Search and Booking Tools: Provides search options for flights, hotels, car rentals, and vacation packages, often with filters for budget, dates, and preferences.
3. Customizable Packages: Offers pre-designed travel packages with options to tailor itineraries based on individual needs.
4. Travel Guides and Blogs: Includes articles, travel tips, and recommendations for travellers.

Project Overview:

- **Objective:** To design and offer unique travel packages that cater to various interests and budgets, enhancing customer travel experiences.

- **Target Audience:** Families, adventure seekers, luxury travellers, cultural enthusiasts, etc.

SUMMARY:

- **Frontend Development**:
  Expertise in creating responsive and interactive user interfaces using HTML5, CSS3, JavaScript, and modern frameworks like React.js.
- **Backend Development**:
  Proficient in developing robust APIs and microservices using Django, Flask, and Fast API, with a focus on performance optimization and code maintainability.
- **Database Management**:
  Skilled in designing and querying relational databases like MySQL and SQLite3, with experience in optimizing database performance and ensuring data integrity.

PROJECTS:

E-Commits – Online Shopping Platform
- **Technologies Used:** HTML5, CSS3, Bootstrap, Tailwind CSS, JavaScript
- **Key Contributions:**
    - Designed and developed a user-friendly interface for browsing and purchasing products.
    - Implemented lazy loading for images, improving page load speed and overall performance.
    - Added subtle animations using GSAP and JavaScript for a dynamic user experience.
    - Ensured responsiveness across all devices using CSS media queries and Tailwind CSS.
    - Addressed layout and styling conflicts to ensure a seamless user interface.
    - Incorporated a filtering feature to help users sort products by categories and price.

Personal Portfolio Website
- **Technologies Used: HTML, CSS, JavaScript, Bootstrap**
- **Key Contributions:**
    - Designed and launched a personal portfolio website within one week to showcase skills and projects.
    - Created a visually appealing and interactive design with smooth navigation.
    - Integrated a contact form with validation using JavaScript.
    - Optimized performance by minifying CSS and JavaScript files.
    - Ensured cross-browser compatibility and tested the website on multiple devices.

Mobile Shop Management System
- Technologies Used: Tkinter, SQLite3
- Key Contributions:
    - Developed a GUI application with features to add, update, delete, and search mobile phone records.
    - Designed an intuitive main application window using Tkinter's GUI components.
    - Ensured smooth database connectivity with SQLite3 for real-time operations.
    - Added data validation and error handling to enhance usability and reliability.
    - Created a sales module that generates daily transaction summaries.

Objective: To build a simple GUI application for managing a mobile shop that allows users to add, view, update, and delete mobile phone records.
- This Mobile shop Management System project aims to develop a robust web application for managing a mobile store in Tkinter and then database using sqlite3.
- This application will provide users with a feature-rich platform to browse, purchase, and manage mobile devices, accessories, and related items.

Project Structure:

- **Main Application Window**: Tkinter GUI setup.

- **Database**: Use SQLite to store mobile phone data.

- **Functions**: To handle add, view, update, delete, and search functionalities.

Go Travel Website (Freelancing Project)
- **Technologies Used**: Django, SQLite3, Python
- **Key Contributions**:
    - Designed backend systems to support customizable travel packages and booking tools.
    - Integrated dynamic filtering for destinations, budget, and travel preferences.
    - Used Django ORM to handle database queries efficiently.
    - Collaborated with the client to understand requirements and delivered a scalable solution.
    - Ensured secure user authentication and session management.

Job Application Management System (JAMS)
- **Technologies Used: MySQL**
- **Key Contributions:**
    - Designed a comprehensive database schema for managing job postings, applications, and applicants.
    - Created stored procedures for bulk data operations and optimized query performance.
    - Implemented user role management to differentiate between admins and applicants.
    - Built views to generate detailed reports on application status and user engagement.
    - Tested the database for edge cases, ensuring data integrity and reliability.

EDUCATION

M.Sc. computer science

Syed Ammal arts and science college, Ramanathapuram.   (71%)   2021 – 2023

B.Sc. Computer science:

Syed Ammal arts and science college, Ramanathapuram.   (71%)   2018 – 2021

CERTIFICATIONS

- **Frontend** (HTML5, CSS3, JavaScript, React.js) Certification - Besant Technologies
- **Python** certification – Kalvi Institute **Tkinter** (96%), Besant Technologies
- **MySQL** Certification - Besant Technologie
- **Backend** (Django framework, Flask.) Certification - Besant Technologie