Vedhagiri S

Python Full Stack Developer

+91-8610968996 vedhagiri1421@gmail.com Chennai, Tamilnadu, India.

PROFILE:

With 4 years of experience in IT, including 3 years in development, I specialize in web and desktop application development with strong problem-solving skills and a passion for end-to-end project delivery. My expertise includes Python, HTML, CSS, JavaScript, SQL, Django, Flask, React.js, MySQL, PostgreSQL, Redis, and AWS S3 (basic). I am proficient with PyQt5, pydicom, pandas, NumPy, Matplotlib, boto3, Flyway, image processing, and DICOM integration. Skilled in implementing secure systems with JWT, RBAC, and managing Authentication & Authorization, I am also familiar with networking concepts using pynetdicom, enabling me to deliver robust, scalable, and secure solutions.

EXPERIENCE:

- **Suntrion Technosol Pvt Ltd**
  Software Engineer
  01/2024-present | Chennai, India.

- **Hikma Infotech**
  Programmer Analyst
  6/2021-01/2024 | Chennai, India.

SKILLS:

Programming languages:
- Python
- JavaScript

Frameworks:
- Backend: Django, Flask, Microservices
- Frontend: React.js, HTML, CSS, Tailwind
- GUI: PyQt5 (Desktop App)

Cloud:
- AWS S3 Bucket
- boto3

Databases & Storage:
- SQLite
- PostgreSQL
- MySQL
- Redis

Database Migration & ORM:
- Flyway
- ORM Concepts

Data Visualization:
- Matplotlib
- Pandas
- NumPy

Security & Access Management:
- JWT (JSON Web Tokens)
- Role-Based Access Control (RBAC)
- Authentication & Authorization

Medical Image Processing:
- DICOM Image Processing
- Pydicom
- Pynetdicom
- Cornerstone.js

Collaboration & Productivity Tools:
- Git (Version Control)
- Jira
- Confluence

EDUCATION:

B.sc Computer Science
University of Madras

LANGAUGES:

- Tamil
- English

PROJECTS:

Teleradiology - Suntrion Technosol Pvt Ltd (Jun 2024 - Present) - **Python Full Stack Developer**

The Teleradiology Web Application is a comprehensive, end-to-end platform that empowers radiologists to deliver efficient, accurate diagnoses. It features a powerful DICOM image viewer for high-resolution image manipulation; an integrated report editor that streamlines report creation and secure sharing with patients, referring physicians, and remote specialists; a patient management system for registration, case tracking, and history access; and a role-based user management module for secure, permission-driven workflows. An advanced dashboard provides real-time statistics and monthly performance reports, while built-in radiology services and billing management complete the solution—significantly enhancing diagnostic workflows, data security, and collaboration in modern teleradiology practices.

IV-DICOM - Suntrion Technosol Pvt Ltd (Jan 2024 – Jun 2024) - **Python Developer**

IV-DICOM is a desktop medical imaging application that receives and processes scanned images from medical devices, supports advanced image manipulation for accurate diagnostics, and provides networking integration and sharing, thereby streamlining local image handling and enabling radiologists to deliver precise, timely diagnoses. safeguards sensitive information but also enhances the overall reliability and trustworthiness of the application. In essence, it acts as a crucial line of defense against potential security threats and errors, strengthening the foundation of the eKYC system.

TrustVault - Hikma Infotech (Jan 2023 - Jan 2024) - **Python Developer**

The Art of Thorough Input Validation" - In the realm of eKYC applications, guaranteeing the accuracy and security of user inputs is paramount. This involves implementing stringent input validation practices that scrutinize every piece of information entered into the system. By doing so, the application can confidently filter out malicious or erroneous data, reducing the risk of vulnerabilities and data breaches. This vigilance in input validation not only safeguards sensitive information but also enhances the overall reliability and trustworthiness of the application. In essence, it acts as a crucial line of defense against potential security threats and errors, strengthening the foundation of the eKYC system.

Empowering Healthcare - Hikma Infotech (Jun 2022 - Jan 2023) - **Python Developer**

Empowering Healthcare" signifies the overarching goal of enhancing the healthcare industry by leveraging advanced technologies and innovative solutions. It encompasses initiatives aimed at improving patient care, streamlining medical processes, and increasing access to healthcare services. This abstraction highlights the transformational impact of technology in the healthcare sector, promoting efficiency, accessibility, and better patient outcomes. It encompasses digital health tools, telemedicine, data-driven decision-making, and patient empowerment, all contributing to a more patient centric and efficient healthcare ecosystem. The focus is on leveraging technology to empower both healthcare providers and patients in achieving better health and wellbeing.

ROLES AND RESPONSIBILITIES:

- Developed and maintained secure, user-friendly desktop and web applications using Python (Django and Pyqt5) and React.js.
- Implemented authentication, authorization, and role-based access control (RBAC) across all modules to safeguard patient data and enforce compliance.
- Collaborated with product managers, QA engineers, and DevOps to manage end-to-end project development, documentation, and deployment.
- Implemented caching strategies, database indexing, and query optimizations to enhance application performance and scalability and maintained Redis for in-memory caching, session storage.
- Managed database schema versioning and automated migrations using Flyway, ensuring consistent, reliable schema changes across development, staging, and production.