

Bhikhabhai Dhobi

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Summary

Software Developer with 2+ years at Matrix Comsec specializing in advanced video analytics and desktop applications. Expert in designing AI/ML SDKs for facial analysis, object detection, and license plate recognition using C++ and MFC. Skilled in multi-threaded GUI development, integrating OpenCV, OpenVINO, TensorRT, MediaPipe, and FFMPEG for efficient video processing. Proficient in code optimization, legacy software migration, and secure coding (OWASP). Committed to continuous learning and delivering high-quality, engaging software solutions.

EDUCATION

Dharmsinh Desai University	July 2019 – 2023
B.Tech in Information Technology	Nadiad, Gujarat
Joyful International School	2018 – 2019
CLASS XII - GHSEB	Kalol, Gujarat

SKILLS

- **Programming Languages:** C++, SQL, HTML, CSS, JavaScript (basic), python (basic)
- **Frameworks & Libraries:** MFC, OpenCV, OpenVINO, TensorRT, Google MediaPipe
- **Other Skills:** Multi-threading, Debugging, Cryptography & Secure Coding, Agile Methodologies, OWASP Security Practices
- **Tools:** CMake, Git/GitHub, Jira, TFS, SVN, SSMS, Wireshark

Experience

Matrix Comsec, Vadodra, GJ

Software Developer

1/2023-Present

- **MFC-Based Application Development:** Developed and maintained robust MFC-based C++ applications, ensuring reliable functionality and user-friendly interfaces. And Optimized code efficiency and performance through comprehensive debugging and refactoring.
- **Performance & Security Optimization:** Implemented secure coding practices based on OWASP standards using OOP and cryptography concepts, resulting in increased security and enhanced application performance.
- **FRSDK (Face Recognition SDK):** Developed advanced features including face detection, landmark detection, mask detection, template extraction for face recognition, and anti-spoofing. Enhanced the SDK by adding an eye blink detection feature using the Google MediaPipe face mesh model. Also Optimized deployment for platforms such as OpenVINO, TensorRT, Rockchip, and Raspberry Pi.
- **ODSDK (Object Detection SDK):** Implemented a real-time object detection solution capable of detecting persons, vehicles, and bags on both CPU and GPU. Also Ensured compatibility with OpenVINO and TensorRT for enhanced performance.
- **LPRSDK (License Plate Recognition SDK):** Developed a license plate recognition system utilizing a beam search algorithm for accurate detection.
- **Enhanced Platform Functionalities:** Contributed to the SAMAS platform by integrating key functionalities such as motion detection, no-motion detection, tailgating, and camera tampering detection using OpenCV for effective image processing.

PROJECTS

• FaceLandmark Detector

FaceLandmark Detector is a React application that leverages MediaPipe Face Mesh for real-time facial landmark detection. It enables toggling between webcam and image upload for interactive analysis, and features automated deployment using GitHub Actions to GitHub Pages. This project highlights advanced AI, computer vision, and DevOps expertise, demonstrating robust technology integration.

Live Demo: [Link](#)

• University Website

Designed and implemented a responsive website showcasing academic programs, departments, events, and campus life.

Live Demo: [Link](#)