Akshar Kalathiya

Junior Software Developer

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Ⓢ https://join.skype.com/invite/xCFeGIeFFfD3

PROFILE

I'm a dedicated professional with expertise in Android development, Python, OpenCV, database management, IoT, and hardware control software. I'm passionate about creating innovative solutions and am committed to continuous learning to improve my skills. I'm a hardworking individual who constantly pushes the boundaries in software development.

PROFESSIONAL EXPERIENCE

01/2023 – present
Surat, India

Jr Software Developer
Mindron 🔗
- Skilled Python and Android developer specializing in image processing and hardware control with OpenCV. Improved user experiences through Android camera integration and demonstrated adaptability across platforms, including Raspberry Pi 4.
- Versatile in Python and Java, enhancing image processing in Android apps. Proven problem-solving and adaptability in automating processes for the diamond industry.

09/2022 – 12/2022
Surat, India

Trainee Software Engineer
- Developed strong Python skills for software development, specializing in PySide2 and Qt/QML to create efficient, user-friendly applications. Mastered object-oriented programming (OOP) principles for robust code.
- Explored Android app development in Java with a focus on hardware integration, gained foundational knowledge of OpenCV for image processing and computer vision. Demonstrated practical application of skills through successful completion of IT projects, actively seeking opportunities to expand knowledge and build a solid foundation for a software engineering career.

EDUCATION

2019 – 2023
Gandhinagar, India

Bachelor of Engineering
Government Engineering College,Gandhinagar
Electronics and Communication Engineering
CGPA - 8.23
Percentage - 77.4%

2018 – 2019
Botad, India

HSC
Smt. R. A. Kalathiya Vidhya Bhavan 🔗
JEE percentage - 94%
Percentage - 66.6%

2016 – 2017
Botad, India

SSC
Shree Dakshinamurti Vidyalaya
Percentage - 89%

PROJECTS

09/2023 – present

Trusure-Mobile App
android application
- Real-Time Image Processing: "Treasure Mobile" utilizes OpenCV for real-time image processing, enabling object and scene recognition and interaction.
- Database Efficiency: The app efficiently manages data using a database system, ensuring quick access to information related to treasures or objects of interest.
- Native Camera Integration: "Treasure Mobile" seamlessly integrates native camera access for precise and efficient image capture and real-time processing.

09/2023 – present	**Seed Polising Machine**

- Stepper Motor Precision: The project utilizes stepper motors for precise, controlled three-axis movement, crucial for delicate diamond work.
- Arduino Mega Control: Arduino Mega microcontrollers manage complex sequences, ensuring accurate and repeatable polishing.
- Stepper Motor Drivers: Various stepper motor drivers synchronize motor movements based on Arduino Mega signals.
- User-Friendly Interface: The system offers a user-friendly interface, potentially through a computer or touch screen, allowing operators to customize and adapt polishing parameters to specific diamond specifications.

01/2023 – present   **Desktop Application**
desktop application for product

- Customized Debian OS: Tailored for optimal performance, the customized OS runs the application efficiently on Raspberry Pi 4.
- Python Backend: The project's core relies on Python, offering versatility and efficiency for robust functionality and data processing.
- PySide2/Qt/QML Frontend: The user interface is developed using PySide2 and Qt/QML, ensuring a modern, user-friendly design.
- OpenCV for Image Processing: OpenCV integration enables real-time image processing, facilitating tasks like computer vision and automation.
- Efficient Database Management: The application efficiently manages data, ensuring organized storage and retrieval.

CERTIFICATES

- SQL (Intermediate) Certificate 🔗
- Python (Basic) Certificate 🔗

SKILLS

Flutter Development:
Proficient in developing cross-platform mobile applications using Flutter.

Android Java Development:
Experienced in Android app development using Java.

Python:
Skilled in Python programming for various applications, including desktop development and image processing.

Internet of Things (IoT) with Arduino:
Knowledgeable in designing and implementing IoT projects using Arduino.

Database Management:
Good knowledge of database systems, including SQL and MySQL.