Dhairya Pandya

+91 932-790-6704 | *dhairyapandya05@gmail.com* | *linkedin.com/in/dhairyapandya* | *github.com/dhairyapandya05*

Education

Chandubhai S Patel Institute of Technology   **8.79**
Bachelor of Technology   *July. 2020 – May 2024*

Kokilaben Dhirubhai Ambani Vidyamandir   **88.4%**
Class 12   *Aug. 2019 – May 2020*

Experience

Research And Development Engineer | *Certificate*   **Dec 2023 – Present**
Sahajanand Technologies Private Limited   *Surat, Gujarat*

- Passed 74/86 images dataset by developing an Open CV algorithm to determine edge confidence between two points using **GoodFeaturesToDetect**, **OTSU thresholding**; optimized kernel and window size.
- Eliminated strategic salt-and-pepper noise and extracted corners using **Shi-Tomasi Corner Detection**.
- Accomplished **Delaunay triangulation** on polygons by applying **Bresenham's Algorithm** to accurately draw lines underlying the generated edges and resolve the generated issues to get the best user experience.

Mobile Application Developer | *Certificate* **|** *Play Store*   **June 2022 – July 2022**
One 17 Technologies   *Meerut,Uttar Pradesh*

- Implemented a **Room Persistent Database** with clean architecture creating an abstraction layer over SQLite that reduced server calls, enhanced data security, and provides a highly available user-centric interface.
- Implemented multilingual support using the **Google Cloud Translate API**, increasing user engagement and application installs from **1.4 K** to **1.9 K** monthly by catering to a broader audience in their native languages.
- Understand the product features and developed a user-friendly onboarding wizard using **Material UI**, animations, and transitions for better user experience thus contributing to a scalable fault-tolerant system.

Skills

Programming Languages: C/C++, C#, Java, Kotlin, Python

Databases: (Relational database): MySQL, SQLite, NOSQL, Firebase Realtime Database, FireStore

Frontend Technologies/Tools: Low-Level System Design, OOPS, Android Studio, Open CV, Git, Visual Studio, Visual Studio Code, Android, Jetpack Compose, REST API, Unity 3D, ARCore, Agile, Operating Systems

Coding Profile: (Problem Solving and Data Structures and Algorithms)
- **Leetcode** | **570+** Problems solved | Rating of **1445** | *Link*
- **GFG** | 3 - Start Coder | Rating of **1633** | **165+** Problems solved | Total Score: **578** | *Link*

CVMU Hackathon | March 2023 | Team Leader | **Ranked Top 10** out of 100+ Teams | *Certificate* | *Project*

Certificates
- **Accelerated Computer Science Fundamentals** | Scored: **95%** | University of Illinois | Aug 2024 | *Certificate*
- **Introduction to Augmented Reality and ARCore** | Scored: **94%** | Google AR & VR | Jan 2023 | *Certificate*

Projects

QR Code Generating and Scanning Application | *Play Store* | *GitHub*
- Developed an application capable of generating QR codes across all versions and scanning 10+ types of codes.
- Enhanced data interpretation and display capabilities by utilizing **UTF-8** and **ISO 8859-1** encoding standards.
- Accomplished **Reed-Soloman** encoding that encodes code in **L,M,Q,H** levels; making code resilient to damage.

Zeep Service (Transport Service Application) | *GitHub* | *Video Demo* | *Low Level Design*
- Integrated **WhatsApp messaging** via QuickWork and utilized the **Google Sheets API** to build interactive dashboards thus enhancing data visualization and required troubleshooting.
- Understood the use cases and implemented an innovative **Dialogflow chatbot** tailored to customer intents, extract crucial entities from order responses; seamlessly integrated with **Google Calendar**, for user-centered experience.
- Developed **SOLID principles** and implemented design architecture patterns like **Singleton, Adapter, Abstract Factory** to follow best practices, scalability and optimize database connection efficiency.