Onkar Ingale

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EDUCATION

- **N.K ORCHID COLLEGE OF ENGINEERING TECHNOLOGY** — Solapur, Maharashtra
  Bachelor of Technology in Computer Science Engineering; Current CGPA: 8.59 — *2019 - 2023*

SKILLS SUMMARY

- **Languages**: C++, C, Java, Kotlin
- **Application Development**: Android, (Novice)Windows UWP
- **Framework**: Spring Boot
- **Technologies**: PostgreSQL, PostGIS, MYSQL, Firebase, Azure, Digital Ocean, Linux-based OS, Git.
- **Video Editing**: Manim Animation engine (Python library for creating mathematical animations), Adobe Premiere Pro

EXPERIENCE

- **Footwear Registry Application : Freelance** — Link:Gallery
  Kotlin, Java, XML, Amazon S3, Object-Box Database,
    - This was a freelance Android work which had only requirement that was to make products searchable in English and Marathi. This project was built using View based & Composed based UI Toolkits.
    - Uses Amazon S3 for saving server cost as the client's use-case was limited to the internal operations.
    - All Product metadata are serialized into one Json file, the metadata and images of the product are saved separately in S3.
    - It uses Object-Box which is a High-performance No-SQL database and faster than Room Database.
    - Intelligently handles synchronizations with single click.
    - It utilizes Kotlin Coroutines to manage asynchronous tasks.
    - It has Adaptive UI, layout changes based on the screen space available to it.

PROJECTS

- **Multiple Linear Regression Android App** — Link: Google Play Store GitHub
  Java, XML, JNI, C++
    - Takes input as CSV File and models the linear relationship between a single dependent continuous variable and more than one independent variable.
    - The algorithm was written from scratch in C++ and integrated into the app through Java Native Interface.
    - Multiple Linear Regression is officially published on Google Play Store with 100+ downloads

- **Lenovo Control Windows App** — Link: GitHub
  C#, XAML, WinUi3
    - Ported the WPF(Windows Presentation Foundation) based open-source app to the new WinUi3 Design.
    - It is an application for Lenovo Legion devices to control the Power Modes, Charging Speed, and Always-On USB Power Delivery

- **Photo Editing Android App** — Link: GitHub
  Kotlin, Java, XML
    - Photo Editing app which manipulates the Brightness, Contrast, and Saturation of an image.
    - Its design is based on the new Material 3 announced during 2021 Google I/O.
    - Gives users the quickest way to manipulate the basic elements of an image.

- **Library Functions** — Link: GitHub
  C++
    - This Template Library is designed to provide C++ programmers with a variety of useful data structures that can help them write less verbose code and solve complex problems more efficiently.
    - Our library includes data structures such as Array, Linked List, Queue, Stack, and trees(in development).
    - Offers essential overloaded operators to have simplified operations and has ability to interact between different data structures.