

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: 8.43 2019 - 2023

SKILLS SUMMARY

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

MAJOR PROJECT

- **Protector For You : Cloud Based Mobile Application** Link: [Google Play Store](#)
Spring Boot, Android, Views, Jetpack Compose, WorkManager, Firebase Cloud Messaging, Digital Ocean
 - “Protector for You” is application which helps users share their location with friends, family, and people within a certain radius who have the app. It also sends alerts in case of trouble.
 - Developed and implemented a notification service using Spring Boot, Postgres, and PostGIS that tracks emergency SOS triggers and sends requests to nearby volunteers.
 - Gained experience with SSL in Spring Boot, system services in Ubuntu, and custom queries using PostGIS.
 - Successfully deployed the server with an associated domain name and ensured that all data is encrypted in transit using HTTPS and a valid SSL certificate.

FREELANCING EXPERIENCE

- **Footwear Registry Application : Freelance** Link: [Gallery](#)
Kotlin, Java, Views, Jetpack Compose, Amazon S3, Object-Box Database
 - Developed an Android application using Kotlin, Java, Amazon S3, and Object-Box Database to make products searchable in both English and Marathi.
 - Used Amazon S3 for storage to save on server costs, as the client’s use-case was limited to internal operations.
 - Serialized product metadata into a single JSON file, with metadata and images saved separately in S3.
 - Integrated Object-Box, a high-performance No-SQL database that is faster than Room Database.
 - Designed intelligent synchronization with a single click and utilized Kotlin Coroutines to manage asynchronous tasks.
 - Developed an adaptive UI that changes based on the available screen space.

PROJECTS

- **Multiple Linear Regression - Mobile Application** Link: [Google Play Store](#) [GitHub](#)
Java, Views, JNI, C++
 - Developed a mobile application using Java, JNI, and C++ that takes input as a CSV file and models the linear relationship between a single dependent continuous variable and more than one independent variable.
 - Wrote the algorithm from scratch in C++ and integrated it into the app through the Java Native Interface (JNI).
 - Published the Multiple Linear Regression application on the Google Play Store, with over 100+ downloads.
- **Photo Editing Android App** Link: [GitHub](#)
Kotlin, Java, Views
 - 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.