

# Aman Kumar

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## Experience

### Oasis Infobyte

Web Dev Intern | Mar 2023 - Apr 2023 | Remote

- Created websites using bootstrap, html 5, css and some parts with JavaScript
- Hosted demo websites on github pages

## Projects

### Morse Code Translator [↗](#)

- Made using **python** using no external plugin. it uses dictionary to store the morse code. The **key** here is the english alphabets.
- It can encrypt and decrypt the given message.

**Tech** : Python | Dictionary | Numpy

### Weathering Mobile Application [↗](#)

- Made using **kotlin** and following business logic **MVVM** to setup everything in the project.
- It uses Glide to load images
- Has **LeakCanary** to show if there is any memory leak during the debug mode.
- Use openWeatherApi to show weather data and a toggle to switch between dark and light mode.
- **Illustration** are crafted by me.

**Tech** : Kotlin | Retrofit | XML | hilt | Room

### YTAudio Mobile Application [↗](#)

- Made using **kotlin**
- it uses **yt-dlp** to get the video and convert using **ffmpeg**
- User can **select specific folder** to save mp3

**Tech** : Kotlin | XML | Storage | Youtubedl-android

### Portfolio Website [↗](#)

- Made using **bootstrap** framework for responsive site implementation in short time.
- Added **hugo** support for static blog
- Hosted on github pages

**Tech** : Html | CSS | Bootstrap | Hugo

### Kernel for Moto G3 [↗](#)

- A kernel for android device using **C** language
- Added lots of CPU profiles from github
- Upstreamed kernel source from **kernel.org**

**Tech** : C | Makefile | Android

## Education

### IMS Engineering College (AKTU) | 2020 - 2024

B.tech - Computer Science and Engineering

### NMAV School GZBD | 2019 - 2020

CBSE - 12th / Intermediate

### Army Public School, Noida | 2017 - 2018

CBSE - 10th / Matriculation

### UnitConverter Mobile Application [↗](#)

- Made using **kotlin**
- **MVVM** based Jetpack **Compose** application
- See conversion history in **LazyColumn**
- Support for **landscape orientation**

**Tech** : Kotlin | Compose | hilt | Room db

### News Mobile Application [↗](#)

- Made using **kotlin** and following business logic **MVVM** to setup everything in the project.
- has Coroutines to manage lifecycle
- has **1 activity** and all other as fragments.
- AndroidX Navigation for handling navigation events

**Tech** : Kotlin | XML | Dagger hilt | Retrofit | Room

### Pie Mobile Application [↗](#)

- Made using **kotlin**
- App to show **bar graph** and **pie chart** on android
- has firebase login support, email, gmail, fb
- has **1 activity** and all other as fragments.
- AndroidX Navigation for handling navigation events

**Tech** : Kotlin | XML | Firebase | MPAndroidChart

### Firmware for Lenovo P2 [↗](#)

- Made a firmware for android device to enhance its performance. Used **LineageOS** for whole android OS source.
- Supported latest android to the device when company dropped its support.
- **Fixed small bugs** which were present in the stock firmware of the device. Like video playing lags.

**Tech** : Makefile | AOSP | LineageOS | C

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## Skills

### Languages & Technologies

kotlin, python, c, html, css, bootstrap, hugo

### Databases:

MySQL, Room Db

### Tools familiar with:

Git, shell, jenkins, gerrit, Github Actions

## Coursework

Data Structures and Algorithm

Unix Tools and Scripting

## Certifications

Udemy - The Basic Android Kotlin Developer Course [↗](#)

Udemy - (MVVM, Compose) Advanced Android Bootcamp [↗](#)