

Yash Verma

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EDUCATION

- **Indian Institute of Information Technology, Lucknow** Lucknow
Bachelor of Information Technology; CGPA: 8.32 Apr. 2020 – Apr. 2024
- **Relevant Courses:** Data Structures & Algorithms, Operating System, System Design, DBMS, Object Oriented Programming, Distributed Systems, Software Management, Design Patterns.

EXPERIENCE

- **Google Summer of Code Oppia Foundation** [link](#) Remote
Gsoc Student Apr 2022 – Sept 2022
 - **Design Docs:** Designed and architected the whole ci/cd artitecutre for the builds.
 - **Pipelines/Github workflows:** Auto-triggers builds for **alpha**, **beta** and **test** releases, uploads and signs the binary to google drive, gcp bucket and google play store tracks.
 - **Cherry Picks:** Automated cherry picking workflow which automatically merges the cherry picks on the flavour branch.
 - **Issue tracker releases:** Automated logging of each build and release steps of the release on the github issue along with workflows triggering and from commenting on the issue.
 - **Android Release Automation** for **signing**, **building**, **testing** and **uploading** to Google Play.
 - Writing custom **kotlin** scripts for most common tasks like building the **aab**, **signing** the aab, **uploading** the aab to Google Play.
 - Use of **github actions** along with the custom **kotlin** scritps exected with **bazel** for **cd pipelines** for alpha, beta and nighly releases on daily cron jobs.
- **Ochain** [link](#) Cupertino, CA (Remote)
Android Engineer Feb 2022 – Present
 - **MVVM:** Migrated and refactored the code to follow the **MVVM** architecture.
 - **Dagger/Hilt:** Used them for **dependency injection** for third party libraries and classes.
 - **Xml:** Converted the **figma wireframes** to high quality xml layouts and used **Gosdk** to write backend code in **java** for them.
 - **Realm:** Used the **Realm** database to store data and **sync** with **online** database.
 - **Retrofit:** Made API endpoints in **Android** with **Retrofit** to make http requests with **TLS** encryption and parsed the data with **gson**.
 - **Okhttp:** Used **okhttp** as a http client for making requests and also used a **Interceptor** to log requests.
 - **Bash Scripting :** Added a pre-commit hook for codebase to run eslint checks and typescript checks which reduced the lint and type errors by **100%** in the codebase.
- **Oppia Foundation** [link](#) **Github Link** [link](#) **[Link to Merged PRs]** [link](#) Mountain View, CA (Remote)
Open Source Contributor Android Aug 2021 – Present
 - **Gradle,Bazel:** Helped in build system migration from **gradle** to **bazel** which increases build speeds by **10x**.
 - **Tablet Support:** Created new new **fragments** which are wrapped inside their own **activities** in mobile so that both open seamlessly in mobile and tablets supporting **multiple** screen sizes.
 - **MVVM+MVP:** Followed **MVVM**(Model View View Model)+**MVP**(Model View Presenter) architecture to code all of the activities and fragments.
 - **TDD(Test Driven Development):** Written **70+** Unit Tests, **20+** Instrumentation and End-to-end tests in **Espresso**, **Robolectric** and **UIAutomator** with **JUnit** as test runner for Android.
 - **Mentoring:** Successfully mentored **3+** students in the **Android** repository and]textbfonboarded them as **collaborators**.
 - **Wiki:** Written wiki github documentation on **Protobuf** for which greatly improved the understanding of the **protobuf** library in the **repository**.
 - **GSOC:** Helped a GSOC student in **bazel** errors and reviewed the PR.

- **Gnome Foundation** [↗](#) Remote
Open Source Contributor *Sept 2021 – Feb 2022*
 - **GTK4**: Added a new feature in the pathbar of **Nautilus** [↗](#) file manager to open folders and files with other applications seamlessly.
 - **Xml**: Made the wireframe and program of the new button with Xml.
- **BSHAPP Link of App** [↗](#) Andhra Pradesh
Android Freelance Developer *May 2021 – June 2021*
 - **Multi Language**: Added Support for multiple Languages.
 - **Jetpack Navigation**: Used Jetpack Navigation with single activity and multi fragment architecture.
 - **Retrofit**: Integrated **REST** api with Retrofit to make **HTTP** requests.

PROJECTS

- **Festify** [↗](#): Hackathon and event management **Android** app with **NodeJs** [Backend link](#) [↗](#) and **MongoDB** database. Open source python library for financial data analysis and machine learning for finance.
- **GUI-Automator** [↗](#): Written in **python** to download files from google drive and automatically arranging sorting and extracting them.
- **What's App Clone** [↗](#): Peer to Peer and group chat Android App with thread based model and equipped with Google and email authentication.
- **Video-Chatting** [↗](#): Android app made with **jitsi-meet-api** [↗](#) also deployed a custom scalable video server on Ubutnu VM along with setting up nginx server and TLS layer to make it secure.
- **My-Resume** [↗](#): Personal Resume with seperate tracks and **cd pipeline** with **github actions** and **Google Cloud Platform** to automatically upload the new version of the resume to **Google Drive**.

TECHNICAL SKILLS

- **Programming Languages**: Java, Kotlin, Python, JavaScript/NodeJS, C, C++, SQL, bash
- **Technologies/Frameworks**: Linux, AndroidSDK, Dagger/Hilt, Android Jetpack, Docker, Kubernetes, Google Cloud, Github actions, CI/CD pipelines, Express, MongoDB, Realm, Git, MySQL, Firebase, Gradle, Bazel, Nginx, JSON, Regex

POSITION OF RESPONSIBILITIES

- **Onboarding mentor** at Oppia Foundation.
- Member of **Developer Workflow** Team at Oppia Foundation.
- Member of **Android Welfare** Team at Oppia Foundation.
- Senior Member at **Axios, IIITLucknow**.