

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

- **Ochain** Cupertino, CA (Remote)
Android Engineer Feb 2022 – Jun 2023
 - **MVVM:** Migrated and refactored the code to follow the **MVVM** clean architecture with **Dagger/Hilt**.
 - **Figma wireframes:** Converted the **figma wireframes** to high quality xml layouts **optimized** for **different** sizes.
 - **Database migration:** Migrated from **Realm** to **Room** database which decreased the app size by **5MB 12%**.
 - **Paging:** Implemented **pagination** for the API's to load data in chunks using **Paging 3** library.
 - **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.
 - **Unit Tests:** Implemented **unit tests** for the codebase using **Mockito** and **Robolectric** which increased the code coverage by **70%**.
 - **E2E Tests:** Implemented **E2E tests** for the codebase using **Espresso** and **MockWebServer** which increased the code coverage by **90%**.
 - **Bolt**, **Vult**: Managed and maintained the Android apps of the organization's apps development with and releases.
 - **Hello World**: Developed a sample app demonstrating the **Ochain** sdk with **clean architecture** and **coroutines**.
- **Google Summer of Code Oppia Foundation** Remote
Gsoc Student May 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** scrips exected with **bazel** for **cd pipelines** for **alpha**, **beta** and **nighly** releases on daily cron jobs.
- **Oppia Foundation** Github Link [Link to Merged PRs] Mountain View, CA (Remote)
Open Source Contributor Android June 2021 – April 2022
 - **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 onboarded 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

- **Hello World** [↗](#): A application to demonstrate the use of **0Chain** decentralized blockchain storage SDK in **Android** app with coroutines and clean-architecture in **Kotlin**.
- **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 Ubuntu VM along with setting up nginx server and TLS layer to make it secure.
- **My-Resume** [↗](#): Personal Resume with separate 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**.