

# Yash Verma

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## EDUCATION

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- **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, Design Patterns.

## EXPERIENCE

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- **Ochain** 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** Github Link [Link to Merged PRs] Mountain View, CA (Remote)  
*Open Source Contributor Android* Aug 2021 – Present
  - **Gradle,Bazel:** Helped in build system migration from **gradle** to **bazel**.
  - **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.
- **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 artitecture.
  - **Retrofit:** Integrated **REST** api with Retrofit to make **HTTP** requests.

## AWARDS AND ACHIEVEMENTS

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- **Google Summer of Code 2022** at Oppia Foundation.
  - 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 nighthly releases on daily cron jobs.

## PROJECTS

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- **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

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- **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

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- **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**.