Yash Verma

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EXPERIENCE

- **0chain** ⬈   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%**.
    - **CI/CD**: Implemented **CI/CD** pipelines for the **Android** apps with **github actions** and **Google Cloud Platform** to automatically upload the new version of the app to **Google Play**.

[Bolt Application ⬈]

- Led the development of the **"Bolt" cryptocurrency app**, known for its **lightning-fast 100% finality transactions** in under 2 seconds.
- Implemented **split-key technology** for **enhanced security**, providing a convenient and secure alternative to traditional hardware wallets.
- Designed an **intuitive user interface** for **stake management**, **reward visualization**, and seamless **ZCN to ETH swapping**.
- Collaborated across teams to integrate **RESTful APIs**, optimizing user experience through **responsive design**.
- Migrated from **Realm to Room database**, reducing app size by **12%** and improving efficiency.
- Conducted **comprehensive unit and end-to-end testing**, raising code coverage by **70%** and **90%** respectively.
- Maintained a **99.7% crash-free rate** through vigilant **bug fixing** and **performance optimization**.
- Contributed to **technical documentation** to ensure clarity and promote team collaboration.

[Vult Application ⬈]

- Spearheaded the development of the **"Vult" app**, empowering users with **encrypted data ownership** and **seamless sharing capabilities**.
- Designed and implemented an **Encrypted folder** for automatic data protection of **private photos** and **sensitive files**.
- Collaborated with **UI/UX designers** to create an **intuitive interface** for managing encrypted and shared files, photos, and videos.
- Integrated **RESTful APIs** for transparent tracking of **file storage**, challenges passed, and **blockchain event recording**.
- Integrated **end-to-end encryption protocols**, ensuring **secure data sharing** among users.
- Leveraged reactive programming with **RxJava** for enhanced app **responsiveness** and user interaction.
- Contributed to **automated testing strategies**, maintaining high-quality standards.

- ○ Actively participated in **agile methodologies**, driving **iterative improvements** and **timely feature releases**.

- **Google Summer of Code Oppia Foundation** link ↗   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** scritps exectued with **bazel** for **cd pipelines** for alpha, beta and nigthly 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]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 artitecture.
  - ○ **Retrofit**: Integerated **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 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, C, C++, SQL, bash
- **Technologies/Frameworks**: AndroidSDK, Dagger/Hilt, RxJava, Retrofit, Okhttp, Android Jetpack, Express, Git, Gradle, Bazel, JSON, Regex
- **Testing**: JUnit, Mockito, Robolectric, Espresso, UIAutomator
- **Databases**: MySQL, MongoDB, Realm, SQLite, Firebase
- **Devops/Cloud**: Linux, Google Cloud Platform, Docker, Kubernetes, Github Actions, CI/CD pipelines, Nginx, TLS, SSL, Bash Scripting

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.

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**.