

# Tanmay Kulkarni

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## Work experience

### Product Development Intern

RnM Moving Pictures,  
Mumbai  
06/2016 – 09/2016

#### 1) HLS Streaming Protocol

I worked on video optimization and rendering via HLS and integrated Flowplayer. I also experimented with videojs and similar libraries to develop robust video processing systems for rendering and playing M3U8 files serving from CDN.

#### 2) UI mockups and Redesigning the DWM Interface.

Created design prototypes to generate a user flow mechanism for smooth user experience.

#### 3) Launched Version 2.0 Of Company's Official Website.

We developed a new version of RnM Moving Pictures company website by using Twitter's Bootstrap Framework and is hosted and deployed on AWS.

#### 4) Developed and Launched 'Book Your Trainer' Service.

My role was to devise the service model and build front-end prototypes. I also designed and structured the proposition and shipped the service during my internship. The product is now live and integral part of the site.

#### 5) Design and Developed New Subscription Model

Fabricated new subscription plans and pricing table. Designed and developed the subscription page interface along with geo-filtering for displaying pricing currency based on location.

### Project Lead, Android Developer

The Wall - (College Notes)  
05/2015 – 04/2016

**The Wall** is a **college notes application** which was built as a part of a project in college. It is built upon the Picasa web API to perform server side functions and the front end is a simple grid layout built in Android Studio which helps the user to choose the relevant notes respective to his/her class.

- **Lead** a small team of talented individuals and **achieved** a working prototype within **6 months**.
- Facilitated the use of Picasa Web API integrated within a grid fragment in order to achieve an adaptable grid layout.

### Interned as Android Engineer, Data Analyst, and Database Manager.

RnM Moving Pictures,  
Mumbai  
05/2015 – 06/2015

**Dance with Madhuri** is the **world's first** celebrity-backed, online, gamified dance academy.

- Responsible for database management and **building robust video processing systems** for android and evaluating multiple areas of optimization in video compression, delivery, and rendering.
- Analyzed and maintained analytical records with the help of **Google Analytics** and **Flurry** and by doing market research on competitive products for achieving natural and organic results through SEO.

### Interned as an Android Developer, UI/UX Designer & Front-end Developer.

L V Prasad Eye Institute,  
Hyderabad  
12/2014 – 03/2015

At LVPEI, **Srujana Innovation Center** I worked on **3 major research projects** which were built in association with the **Camera Culture Group, MIT Media Labs, Boston**.

#### 1) iLabelit - (Retinal Annotation Web App).

- Devised an **annotating tool** for **retinal images** which would help optometrists to maintain a record of healthy and unhealthy retinas.
- Developed a Quiz section as a **gamification platform** for medical students to gather annotated data of the retinal images.
- Successfully **built and deployed** desktop-based web app and mobile based web app on the Media Labs Server

#### 2) StereoCam - (VR Android App).

- StereoCam offers stereoscopic camera views with a filter of fish-eye lens to **see distant objects closely**.
- Achieved effective results by **testing on partially blind** people to help them see distant objects closely.
- Performed experiments and **achieved prolific results** by observing **plant cells** in VR under a natural light source with the help of **Foldscopes** provided by **PrakashLab** from **Stanford University**.

## Work experience

### 3) Pupil Tracker.

- Built a **VR app** that would display football images in 3D stereoscopic scenes with the help of **binocular rendering**. Used android scale animations with bounce interpolator to achieve **synchronized bouncing animations** of two images in a **single plane**.
- **Designed** and formulated a **VR headset** consisting of HD Webcam, infrared lights and developed pupil tracking software in Open CV for achieving **real-time pupil tracking** data.

### Game Developer, Graphic Designer

Skyrocket  
2014

**Skyrocket** is an arcade shooter game developed in Unity3D for Windows OS and the Web.

- Learned about **Unity 3D** and wrote the entire game in **C#**.
- Incorporated game sprites, parallax mapping, particle physics, smoke effects and prefabs from Unity3D.

### Android Developer, UI/UX Designer

Find My Car  
2014

**Find My Car** is an application that locates and tracks your car. The app uses Google Maps API to do the tracing and locating of the car.

- Developed the app after facing a **real life problem** of finding my own car by utilizing Google Maps API for faster tracking and communication.
- Find My Car is available on the **Google Play Store** and has been downloaded more than **700 times** from more than **10 countries** and has an average rating of **4.7 stars**.

### Android Developer, Graphics Designer

Roll The Dice  
2013 – 2014

**Roll The Dice** is my maiden android application to be **published** on the **Google Play Store**. It is a simple dice app having an aesthetically appealing user interface which **simulates the motion of a real dice**.

- Successfully simulated the rolling of a real dice on your smartphone.
- Designed all the graphics and UI elements from scratch in Adobe Photoshop.
- Roll The Dice was downloaded **more than 10,000 times in just 6 months** of launch and was **trending** on the **Google Play Store** in the Games category for **3 weeks**.
- Executed **marketing and promotional strategies** efficiently across social media through effective communication.

## Education

### Information Technology

Vidyalankar Institute Of  
Technology - (VIT),  
Mumbai  
2013 - present

- Acted as the **project lead** on The Wall - (College Notes) android application and lead a small team of talented individuals in successfully creating an application for the college.
- **Represented VIT** at the Annual Career Fair and exhibited The Wall - (College Notes) android application in front of **more than 20 schools and colleges** from all over the state.

## Skills

### Programming

Angular/CSS3 ●●●●○  
Node/MongoDB/Java/Javascript ●●●○○  
C/C++ ●●●○○  
Python ●●○○○

### Design

Adobe Photoshop Elements 10 ●●●○○  
Adobe Lightroom ●●●○○  
SolidWorks ●●○○○  
Pixate ●●○○○

### Business and Marketing

Leadership ●●●●○  
Soft Skills ●●●●○  
Digital Marketing and SEO ●●●○○  
Google Analytics/Flurry ●●●○○

### Softwares

Android Studio/Eclipse ●●●●○  
Atom/Git ●●●●○  
Mac OS/Windows/Ubuntu ●●●●○  
Unity 3D/Unreal Game Engine ●●○○○