

ASHWIN DINESH

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WORK EXPERIENCE - SOFTWARE ENGINEER

[Jul 2016 - present]

3. Software Engineer - Vyng, Inc.

[Jan 2021 - present]

- Contributed to the Vyng **Android Phone App** project: <https://play.google.com/store/apps/details?id=me.vyng.android>

2. Software Engineer - WebEngage (Webclipper Private Limited), Mumbai

[Jan 2018 - Dec 2020]

- Contributed to the WebEngage dashboard API Gateway **Spring Boot** project.
- Added URL shortening API for mobile deep-links in the URL shortener **Dropwizard** project.
- Contributed to the WebEngage **Android SDK**: <https://mvnrepository.com/artifact/com.webengage/android-sdk>
- Contributed to the WebEngage **Flutter** plugin: https://pub.dev/packages/webengage_flutter
- Initiated and developed WebEngage **Unity** plugins from scratch for Android and iOS in **C#** using **Unity Hub**.
 - Unity**: <https://github.com/WebEngage/webengage-unity>.
 - Unity Android**: <https://github.com/WebEngage/webengage-unity-android>.
 - Unity iOS**: <https://github.com/WebEngage/webengage-unity-ios>.
- Designed and restructured the push notifications module in Android SDK to allow client applications to build their customized notifications called **Custom Push Layouts**: <https://github.com/WebEngage/android-custom-push-layouts>.
- Designed and Developed WebEngage **Xamarin SDKs** in **C#** using **Visual Studio** and **Objective Sharpie**.
 - Xamarin.iOS**: <https://github.com/WebEngage/xamarin-ios-sample>.
 - Xamarin.Android**: <https://github.com/WebEngage/xamarin-android-sample>.
- Restructured the Cordova plugin to make it compatible with the latest **Cordova**, **Phonegap**, **Ionic**, and **Ionic Pro** versions. Allowed smooth, non-breaking updates of client apps by adding migration code in **Javascript**.
 - Cordova plugin**: <https://github.com/WebEngage/cordova-plugin>.
 - Ionic Native plugin**: <https://github.com/WebEngage/ionic-native>.
 - Ionic Sample**: <https://github.com/WebEngage/ionic-3-sample>.
- Developed **Docker** image, integrated **GitLab CI/CD**, and added release **Shell Script** for **continuous integration** and **continuous delivery** of WebEngage test app and Android SDK.
- Increased push notification delivery by 17% by implementing **Push Amplification** in the Android SDK.
- Contributed to maintaining compatibility of **React Native SDK**: <https://github.com/WebEngage/react-native-webengage>.
- Optimized in-app load time from 2.6 to 0.8 secs by pre-fetching resources and restructuring the Android SDK.

1. Android Developer - Mirraw Online Services Private Limited, Mumbai

[Jul 2016 – Dec 2017]

- Contributed to the **Mirraw Android app**: <https://play.google.com/store/apps/details?id=com.mirraw.android>
- Designed and developed the **Returns Panel** for the Mirraw Android app to return multiple products in a single request.
- Developed and published more than 150 **Video apps** on Google Play Store in less than a month by developing an automation script in **Ruby** for building multiple Android product flavors, Google Play store-listing images, and initializing objects in **Firestore Realtime Database**.
- Designed and developed a Database Helper project in **Java** to add, update, and manage a large number of video data documents in **Firestore Realtime Database** from **Youtube API**.
- Increased app installs per month by 15% using dynamic ads and product promotion campaigns through video apps.
- Published 20 **Mirraw Sub-Category apps** on Play Store: <https://play.google.com/store/apps/developer?id=Mirraw.com>.
- Designed and developed a **Designer/Tailor Android app** from scratch for designers/tailors to view their products.
- Integrated **Payu 4.4.2 Payment Gateway** for debit/credit card, net banking, and stored card payments.
- Redesigned app analytics using **Clevertap**, **Localytics**, **Facebook Analytics**, and **Firestore Analytics** SDKs.
- Improved crash-free sessions from 92.8% to 99.98% by resolving memory leaks, fatal and non-fatal issues in Android.

PERSONAL PROJECTS

- 1. Quotes Widget:** <https://play.google.com/store/apps/details?id=com.ashwin.apps.android.quoteswidget>
Simple Android widget for displaying quotes on the home screen. Developed using **Kotlin**, syncs the latest quotes from a remote Gist file, allows users to add custom quotes, change fonts, colors, and alignment of quotes in the widget.
- 2. App Analytics:** <https://play.google.com/store/apps/details?id=com.ashwin.apps.android.appanalytics>
Android app developed using **Kotlin** to extract APK files and other useful information from the installed apps on the device.
- 3. Android Cache Manager Library:** https://bitbucket.org/ashwin_dinesh/android_cache_manager/src/master/
Android library developed using **Kotlin** which simplifies cache management for apps. Allows caching **Strings**, **JSON objects**, **JSON arrays**, and **Bitmaps**. Demo project: https://github.com/ashwindmk/android_cache_manager_demo.
- 4. Deep Sources Website:** <https://deep-sources.firebaseio.com>
A free educational website that provides chapters on various subjects. Developed by using **HTML5**, **SCSS**, **W3 CSS**, **Javascript**, **Angular JS**, **Katex**, **MathJax**, and hosted in **Firebase Web Hosting**.
- 5. The Formula Book:** <https://play.google.com/store/apps/details?id=com.ashwin.android.theformulabook>
Android **WebView** app provides a collection of important formulas, values, and definitions.

OPEN-SOURCE PROJECTS

- 1. Android Enhanced-Geofence Library:** https://github.com/ashwindmk/android_enhancedgeofence_java
Developed using **Java** to overcome the drawbacks of Android's native geofencing. It is hosted in **Bintray** and **JCenter**.
- 2. Node JS Configer Library:** https://github.com/ashwindmk/nodejs_configer
NPM plugin in **Javascript** for managing configuration data for different environments without setting OS level variables.
- 3. Android Clearable EditText Library:** <https://github.com/ashwindmk/Android-Clearable-EditText-Library>
Custom widget developed using **XML** and **Java** that provides a clear icon at the right corner of an Android **EditText** field.
- 4. Android Description Overlay Library:** <https://github.com/ashwindmk/Android-Description-Overlay-Library>
Developed using **Java** for displaying an introductory description of UI elements on the screen of your Android app.

FREELANCE PROJECTS

- 1. Rocketbox Driver Android App**
 - Added migration changes required to make the app compatible with **Android Oreo Background Limitations**.
 - Fixed bugs related to Android **sync-adapter**, **foreground location tracking**, and **file uploading** services.
 - Added response caching and dynamic response handling to the **Retrofit** client for offline session management in the app.

EDUCATION	Year	Board/University	CGPI
Bachelor of Engineering [Information Technology]	May 2016	Ramrao Adik Institute of Technology, Mumbai University	8.37 / 10.0
Class XII [Computer Science]	Feb 2012	Maharashtra State Board	87.83 %
Class X	Mar 2010	Maharashtra State Board	88.91 %

EXTRA-CURRICULAR ACHIEVEMENTS

1. First Prize in ITSA's Quiz-O-Code coding contest. [Mar 2016]
2. Secured 1414 rank across India in the Tata Consultancy Services CodeVita coding contest. [Aug 2015]
3. First Prize in Shri G.P.M Annual Fest Quiz competition. [Dec 2012]
4. Qualified for Complan Talent Search District level Chess Tournament Coaching with 6.5 out of 7 points. [Nov 2010]
5. First Prize in Shivsena District level Drawing competition. [Sep 2010]
6. First prize for 3 consecutive years for J R D Tata Drawing competition. [2007 - 09]