

Gaurav Chaddha

Software Engineer

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Experience

- May–Jul 2017 **Intugine Technologies** – *Motion Sensing Wearables*
Bangalore,IN *Software Engineer Intern*
- Worked on motion sensing ring 'Nimble' using Bluetooth Low Energy(BLE) for connectivity.
 - Designed and developed robust architecture of the Nimble Android app.
 - Increased data transfer rate between Nimble and app by 30x.
 - Developed and implemented 'Point and control' and 'Custom gesture detection' algorithms.
- May–Jul 2016 **Witworks** – *Smartwatch OS development*
Bangalore,IN *Software Engineer Intern*
- Worked on smartwatch 'Blink' running 'Marvin', an Android-based OS customized for smartwatch.
 - Developed core apps for Marvin such as Fitness app with accurate algorithms, Settings app with OTA updates feature, and Dialer app with features to see contacts, make and receive calls and messages.
 - Decreased the latency for voice command feature on Marvin by 10x.
- Jan–Apr 2016 **Zup** – *Offline payment app*
Ranchi,IN *Software Developer Intern*
- Reduced network latency and increased app responsiveness.
 - Implemented timed pattern lock, increased security using tokens, made transaction history feature and obfuscated the code for release.

Projects

- Apr–Apr 2017 **Rakshak** – *Secure email client*
A PGP end-to-end encrypted generic email client developed using standard mail protocols - IMAP and SMTP, Java Mail, Cryptography and Security API (AES + RSA). It provides security from email service providers using encryption.
- Feb–Mar 2017 **Bitotsav** – *Official android app for Bitotsav*
Android app of cultural fest Bitotsav 2017 of BIT Mesra having features such as details of events, quick updates via push notifications, offline experience, entry registrations and payment, purchase of fest t-shirts, and alumni support.
- Mar–Mar 2017 **Visio** – *Social media for visually-impaired*
A platform to help visually-impaired people understand social media using Microsoft Cognitive Services - artificial intelligence, image and sentiment analysis. It analyzed media content and gave that understanding to user using text-to-speech technology.

Skills

- Java OOPS, Design Patterns, Multithreading, Generics, Java 8 , Mail API, Security and Cryptography API, Socket Programming.
- Android Android framework, Retrofit, RxJava, Material Design, Firebase, Realm, Bluetooth and BLE API, Sensor API, Gradle, Crashlytics - Analytics.
- Tools and OS Git, Asana, Android Studio, IntelliJ IDEA, Ubuntu, Microsoft Windows.
- Others S.O.L.I.D. Principles, Functional Programming, MVP architecture, Static code analysis, Networking, MySQL.

Education

- 2014–2018 **BIT Mesra, India** – *B.E. in Information Technology* , Cum. GPA: **8.78 / 10.0**
- 2013–2014 **CBSE Class XII** – *Kendriya Vidyalaya, Bareilly, India* , Percentage: **95.8%**
- 2011–2012 **CBSE Class X** – *Kendriya Vidyalaya, Bareilly, India* , Cum. GPA: **10.0 / 10.0**

Hackathons

- Jun 2017 **Firestore Appfest** : Developed 'LeadTodo' to sync todos from IDE to issue tracking tools
- Apr 2017 **Smart India Hackathon** : Stood 2nd for developing 'Rakshak'
- Mar 2017 **Hack In the North** : Developed 'Visio' to help visually-impaired people feel and understand their social feed