

Hashik Donthineni

Contact

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Top Skills

- Android
- Java
- Golang
- Kotlin
- Docker
- Google Protocol Buffers
- Google Firebase Cloud
- AWS Lambdas
- RESTful Services
- Git Version Control
- SQLite
- RxJava/RxAndroid
- Retrofit
- Leakcanary
- Dagger (Dependency injection)
- Agile Development (Scrum)
- MVP, MVC, MVVM

Other Skills

- JavaScript
- Kubernetes
- Python
- Drupal
- Mixed Reality
- Linux Shell
- Python

Honors-Awards

Winner of NSE, ISB international code sprint.

Udacity, Google India challenge Scholarship

Won Multiple Intra and Inter-University Algorithm Competitions on State Level

EXPERIENCE

Tor Project - Google Summer of Code

Android | Anti-Censorship Team

May 2020

Developing anti-censorship tools like bridges, to unblock Tor in censored regimes and countries. Primarily worked on the Snowflake proxy bridge for Tor.

- Android implementation of Snowflake proxy.
- Implementing Android service, Wakelock to relay data.
- Using WebRTC to connect Android proxy to client.
- RxJava for reactive programming and threading.
- Retrofit, OkHttp for HTTP calls and WebSocket communication.
- Establishing WebSockets communication between proxy and Tor relay.
- Working on building Docker container Snowflake Proxy Golang implementation to run Snowflake on servers.
- Working on Golang tools Emma, Wolpertinger.

Opensense Labs

Android Developer – Freelance

March 2018 – April 2020 - 2 years 2 months

- Integrating RESTful web services in to mobile applications.
- Building Android Native, Hybrid applications.
- Guiding and overseeing interns on Android development.
- Assigning user stories to interns and to conduct stand-ups every day.
- Building application with architecture such as MVP, MVC, MVVM.
- Using Golang and deploying Firebase cloud, AWS lambda functions.
- Using Firebase Cloud to mediate between Drupal server and application (Golang functions)
- Using Firebase Cloud to push notifications.
- Using OAuth 2.0 to provide authentication. Integrating Google, Facebook login.

PROJECTS

- **Snowflake** – Started the development of Snowflake proxy mobile and contributed to Snowflake proxy Go implementation working on developing turbo-tunnel, Webext. Using WebRTC to facilitate communication between app and client and WebSocket to communicate to Tor relay.
- **Emma, Wolpertinger** – Active contributor to the bridge distribution tool Wolpertinger, a lightweight censorship analyzer Emma, written in Golang by Tor project.
- **Techtud Android App (Lead Developer)** – Hybrid Application using Firebase Cloud to push notification and using OAuth 2.0 to authenticate, Golang cloud functions. MVC Architecture is followed. Involves tools like Retrofit (HTTP Calls), Dagger (DI), RxAndroid, Glide.
- **Orbot** – An application from the Guardian project, currently working on bringing new bridges support to Orbot, primarily the Snowflake bridge support.
- **R.V.R and J.C.C.E Android App (Lead Developer)** – Native Android Application with authentication of user using tech stack Retrofit, RxAndroid, Leakcanary, Dagger and powerful MVVM Architecture.
- Other Open-source projects contributions.
- **Other projects for OpenSense Labs as Freelance DEVELOPER.**