

## Employment

### Software Engineer (Android) Surf Dec 2018 - Present

Surf places high-quality interactive tablets in ride-share cars for the entertainment of passengers, and the promotion of businesses, brands & media creators.

- Led the design, development, and implementation of Surf v3, which allowed the company to scale to 3M+ riders per month.
- Engaged with industry leaders such as Paramount Pictures, Vevo and iHeartRadio, and integrated Surf's Android app with their platforms.
- Designed Surf's architecture to dynamically support multiple content types (videos, websites, advertisements etc) with ability to target relevant content to riders in real-time using their location.
- Implemented industry-standard advertising standards (VAST/VPAID) in Surf to allow interfacing with Ad servers.
- Enabled real-time data visualization in Surf dashboards by integrating live analytics reporting using Segment.

### Software Engineer (Android) Xeeonix Nov 2017 - Nov 2018

A Software development company based in San Francisco and Pakistan, that provides multi-platform applications, efficiently and effectively.

- Led the design, development and implementation of the revamp of their home security client's applications combining them into a single multi-flavor application which significantly reduced the project code and made maintenance a lot easier.
- Integrated new features like VOIP calls, VOIP to phone calls, remote building door unlocking and Building DVR Video streaming in the applications to expand the application's experience.

### Software Engineer (Android) Enablers Inc. June 2016 - Oct 2017

Enablers Inc. is an advance technology provider, delivering enhanced solutions to leading communications providers.

- Designed, developed and implemented Vesta Audit which was later on sold to MTN Nigeria and JAZZ (the largest telecom and network services provider in Pakistan).

## Education

### Islamabad, Pakistan National University of Sciences & Technology Sept 2012 - June 2016

- Bachelors in Software Engineering
- Undergraduate Coursework: OOP, Data Structures & Algorithms, Databases, Computer Networks, Comp. Architecture, Software Design & Architecture, Software Requirement Engineering, Software Quality Engineering, Software Project Management

## Projects

- **Surf V3** (2019). An entertainment platform that places interactive tablets in ride-share vehicles for the entertainment of passengers and the promotion of local businesses and brands. Kotlin, Clean Architecture, Dagger, RxJava
- **Surf TV** (2019). Out-of-home media distribution & advertising platform that uses, in stores, Monitors or TVs to share great content and promote local businesses around the community. Kotlin, Clean Architecture, Dagger, RxJava, Coroutines
- **Productivity App for Asplundh** (2017 - 2018). A path navigation, tracking and on-path element plotting application for line clearance surveys. Java, MVP, Mapbox
- **Vesta Audit** (2016 - 2017). Vesta Audit replaces Network Tower Site Audit's data's manual form filling and reporting generation with digital form data submission and automated report generation. Java, MVP
- **Customer Insight** (2016 - 2017). Mobile Network performance reporting application that monitors Telecom service Provider's customer's mobile network experience. Java, FCM, Android Telephony API
- **GeoTrack for Turnotech** (2016). A Geofencing application to track site and office, arrival and exit, timings. Java

## Languages, Patterns & Technologies

**Proficient:** Java, Kotlin & Javascript

**Design Patterns, Principles & Architectures:** Clean Architecture, MVVM, MVP, RxJava2, Dagger2, Coroutines

**Technologies & Libraries:** Retrofit, Exoplayer, FCM, Firebase Runtime Database, Firebase Remote Configs, Android Navigation, Room, Fused Location Provider and Location Manager, Mapbox, GeoFencing, GeoFire, Diffutils, Job Schedulers/Work Manager, VAST/VMAP/VPAID Ad Formats, Segment Analytics, Sinch, Twilio

**Testing:** JUnit, Espresso, Androidx Test Component & Mockito

**Management Tools:** GIT, Jira, Bitbucket Pipelines(CI/CD)