Victor K **Varghese**

SOFTWARE ENGINEER

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Experience

iLeaf Solutions
Kochi, Kerala

SENIOR SOFTWARE ENGINEER
Oct. 2015 - Present

- Working as a mobile developer trying out innovative mobile solutions.
- Worked on multiple android applications following andorid guidelines
- Started working as a React Native developer on fresh projects and porting existing native apps to react platform.
- Able to develop a unified code base pattern for react native which spanned across iOs, android and windows uwp applications

Helo Mobility
Bangalore, India

FREELANCE ANDROID DEVELOPER
Oct. 2016 - July. 2017

- Developed a VOIP application that can be used as replacement for Phone app.
- Able to familiarize webrtc and socket-io code including polling and signalling concepts.

Spectrum Softtech Solutions
Kochi, Kerala

ANDROID DEVELOPER
Jun. 2015 - Sept. 2015

- Started working as an android developer learning android guidelines and standards.
- Able to complete an intermediate android certified course from Udacity, Google

Skills

Technical

SKILLS GAINED AS A DEVELOPER

- Languages: Java,Javascript, C, C++, Python .
- Development Tools: Android Studio, XCode, Visual Studio, Atom, VSCode, Nuclide .
- Testing Frameworks: Jest, Enzyme, Detox.
- Linter Tools: ESlint, Prettifer, Flow.
- Version control Tools and Database : SVN,Git,Realm, Sqlite.

Key Projects

JOYN FDG

https://www.sevenlakes.com/

REACT NATIVE - IOS (IPHONE,IPAD), WINDOWS UWP

- JOYN is a Field Data Gathering app that is been used by oil companies for monitoring wells, other equipments. App has real time formula calculations, data restore-sync as a bulk
- **Role**: Architect and design the complete app including database and design.
- **Single code base** for Business logic in iPhone,iPad and windows UWP.
- Designed database following a normalized Idiomatic redux approach for the best performance and efficiency.
- Implemented **smart-dumb container/component pattern** keeping design and business logic separate .
- Written **unit tests** for testing UI elements, mocking redux store, and other functional parts of the application using Jest, Detox and Enzyme (tried **TDD** for a small duration).
- Implemented **CI-CD** using Bitrise and Visual Studio Mobile Center for React Native.
- Technologies used: React, React Redux, Redux Saga, Redux Thunk, Redux Persist, React Navigation, React Native Windows, Jest, Enzyme, Detox, CodePush ...etc

SHARKTOWER

REACT NATIVE - IOS, ANDROID

- Shark tower is a project management platform used inside an organization which manages their resources on the go.
- Role: Requirement analysis , Architect and design the app db structure using data driven concepts.
- Implemented Real time updates using **socket-io** and able to Implement infinite listview rendering performance
- Implemented **auto update** feature inside the app itself.
- Developed UI components using pan responder and written basic jest tests.
- Play store and App store submission.
- Technologies used: React, React Redux, Redux Saga, Redux Thunk, Redux Persist, Router flux, Socket-io, Jest ...etc

VLENZA

REACT NATIVE - IOS, ANDROID

- Role: Architect and design complete app from scratch using functionality document
- App is used to fully manage an enterprise for several things like coaching, Process management, Intranet communication via chat etc.
- Implemented single and group chat from scratch using **firebase**.
- Able to familiarize with orienatation features in react native.
- Able to familiarize with Animated interactions using pure JavaScript and native solutions like rn-interactable.
- Made app fully them-able with the help of **React Context API** & Theming Tools
- Able to build responsive design for tablets & mobile re-using the existing code.
- Server-less Push Notifications using **Firebase Cloud functions.**
- Technologies used: Redux,Saga,Firebase,, React Navigation, React Native Camera,RN Sound, RN Audio...etc

KNOWN DRUGS

REACT NATIVE - IOS, ANDROID

- Role: Develop high quality maintainable and testable code for a drugs app
- List different medicines and drug practices in the app.
- Familiarized with showing HQ images in an infinite list without stuttering the UI and efficiently utilizing the memory in the app.
- Able to familiarize with different image scaling options.
- Custom material animations in react native app using Animated
- Technologies used: React Redux, Fast Image, Redux Persist, Router flux, Flat List, AsyncStorage...etc

HELO

ANDROID-NATIVE

- Role: Architect a **VOIP** application that can be used a replacement for Phone App
- Familiarized **webrtc** code by fixing issues and adding support to existing library
- Able to take a look at native code behind the scenes of webrtc for better understanding the voip call logic
- Implemented real time polling and signalling using socket-io and webrtc module in the app
- Followed material guidelines for design.
- Able to design a custom two way slider using progress bar from scratch.
- Able to re-optimize the app by reducing the size of the apk (Splitting native webrtc library based on architecture) and make it battery friendly (Limiting polling).
- Technologies used: Webrtc, Socket-io, Fabric, Firebase, Retrofit, Picasso, Butterknife, REST, Node,Crashlytics ...etc

Speerit   *https://speerit.co/*

ANDROID-NATIVE
- Role: Develop an android app that can be used as a fitness app
- Speerit finds like minded runners/athletes using algorithms.
- Algorithms make use of profile details and locations for finding the best matches among the users
- Developed **Real time location updates** (Battery Friendly) in the app using GCM and Google's Fused Location API which updates location every 10 minutes to the server
- Developed a complete chat module for the app from scratch using **XMPP** including voice/image uploads
- Familiarized with EventBus (Reactive approach triggered by an event change).
- Developed a compression mechanism for videos which reduces size of video file without reducing quality.
- Technologies used: ffmpeg, MediaCodec, Google Cloud Messaging, FusedLocationAPI for real time updates, XMPP, Retrofit, EventBus, Glide, Crashlytics,Mix Panel ...etc

Education

FISAT(Federal Institute of Science and Technology)   *Angamaly, Kochi*

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING   *Jun. 2011 - 2015*
- Participated in linux foundation certified course from IIT, Bombay.
- Attended international conference on High Performance Computing (HPC).

Extracurricular Activity

StackOverflow   */users/3261825/vicky*

MEMBER
- Answering and reviewing questions related to mobile application development.
- Providing support to developers thorough chat.

Github   *http://github.com/victorkvarghese*

MEMBER
- Libraries patches/ pull requests.
- Creating libraries for fun/work.
- Creating app clones of existing native apps in react-native.

Medium   *medium.com/@victorvarghese*

MEMBER
- Written articles about react native development

References

- Available upon request.