# Varatharaj Errachi varatha.mobiledeveloper@gmail.com

**+1(615)-710-6740**

# PROFESSIONAL SUMMARY

* **12 years** of total IT experience in R&D and Mobile APP Development.
* **8+ years** of software development experience in **Android**.
* **3+ years** of software development experience in **iOS**.
* **1 year** of software development experience in **Microservice application development** and experienced in Docker container-based application development.
* Strong knowledge of **Kotlin**, **Core java**, Android Frameworks, Android Studio, iOS Frameworks, Xcode, **Swift**.
* Good understanding **Multithreading and parallelism** in Java.
* Good understanding in **Apache Kafka**.
* Good exposure in **Spring Boot, Spring Integration, Spring MVC and Spring Batch.**
* Experienced in integrating **SOAP and Rest Service** via **Spring Boot**.
* Implemented MVVM / MVC architectural design Patterns & created custom reusable components.
* Google **Exo-Player** & Jetpack components
* Strong knowledge of **OTT Platform** used **WEBRTC SDKs** (Tokbox, Enablex & ZOOM VIDEO SDK)
* Experience with video-on-demand and/or linear video playback on ExoPlayer.
* Experience with building and publishing Android and iOS frameworks/libraries.
* Expert in the interaction between various devices and different versions of Android.
* Regarded as a self-motivated and well-organized team player
* Ability to work in a team & individual leadership skills and Implemented Crash Analytics in Firebase and Rollbar..
* Experience in Test Driven Development (**TDD**) using Junit, Mockito and Espresso.
* Experience with Git, Bitbucket, SourceTree, Sonarqube, Maven, Jenkinstools.
* Experience in SDLC of developing Android and iOS Applications, which starts from scratch to end of deployment of the application in Play Store(Android) and in APP store(iOS)
* Knowledge in **Scaled Agile Framework(SAFe)** and in **JIRA**

# TECHNICAL SKILLS

* **Languages:** Java & Kotlin (Android), Swift (iOS).
* **Web Technologies :** JSON, XML, REST, RESTFUL , SOCKET.IO.
* **IDE/Tools: Android Studio,** Eclipse, **Xcode**, **Spring Boot**, ADB, Emulator, Simulator
* **RDBMS**: SQLite, Room and Core Data.
* **Mobile Platforms:** Android and iOS.
* **Version Control:** Git, Bitbucket and SourceTree.

# PROFESSIONAL EXPERIENCE

**Title:** TIAA **Apr 2023 – Till date**

**Client:** TIAA, Charlotte, NC, US (**Contract**)

**Role:** Sr Android Developer at TIAA

**Link:** [**https://play.google.com/store/apps/details?id=com.mobile.tiaa.cref&hl=en\_US&gl=US**](https://play.google.com/store/apps/details?id=com.mobile.tiaa.cref&hl=en_US&gl=US)

**Description:** TIAA mobile app helps you manage retirement, banking, trust and brokerage accounts. The app provides quick and secure access to all your TIAA finances, and puts 100 years of top money management into the plam of. your hand.

# Roles & Responsibilities:

* Lead development efforts for the TIAA banking application, focusing on core banking features such as RAS goal cards, beneficiaries, statements and brokerage functionalities.
* Implemented features using scalable architecture **MVVM, Hilt Dependency Injection** and **Retrofit** for API integration**,** incorporating asynchronous programming with **Coroutines and Flows.**
* Lead the migration plan to transition from the traditional Android UI framework to Jatpack Compose UI, ensuring a seamless and efficient adaptation of the latest teachnology for Andoird UI.
* Successfully migrated legacy Java code to Kotlin while transition from MVC to **MVVM** architecture.
* Implemented standardized guidelines and frameworks for writing functional unit tests using **Mockk**, **JUnit5** and

**Robolectric**. Integrated JaCoCo code coverage reports for comprehensive test analysis.

* Worked on an Agile and Scrum methodologies to deliver high-quality features on time. Actively participated in sprint planning, daily stand-up meetings, sprint reviews and retrospectives to ensure transparency and collaboration.
* Conducted thorough code reviews, including the evaluation and approval Merge/PR requests on Bitbucket, ensuring the upkeep of code quality and reliability.

**Title:** Tax Garden (Personal Tax Returns Use Tax Form 1040EZ) - Android App **Sep 2022 – Mar 2023 Client:** Think Trade Inc

**Role:** Team Lead at Jeevan Technologies INC

# Responsibilities:

* + Involved in Design, Develop, code, test and debug mobile software.
	+ Support offshore team.
	+ Worked on an Agile team with 2-week of sprint.
	+ Perform design and code reviews.
	+ Support the Tech support team with intimate product knowledge.

**Title:** Digital Classroom integrate with Zoom Video SDK **Feb 2022 – Sep 2022 Client:** Wall Street English

**Role:** Android & iOS Team Lead at WSE

**Link:** [**https://play.google.com/store/apps/details?id=com.wallstreetenglish.dc.row&hl=en\_IN&gl=US**](https://play.google.com/store/apps/details?id=com.wallstreetenglish.dc.row&hl=en_IN&gl=US)

**Description:** A digital classroom is an educational mobile app built for tutoring students online through different channels. This application allows teachers and students to communicate through AV functionality. Teachers can also share their screens with students.Whiteboard functionality has been added to this app, where teachers can present a presentation and annotate it.

# Roles & Responsibilities:

* Integrate Zoom Video SDK for Video call
* Used Socket.IO for live communication.
* Used Bitbucket version control for the project
* Participated in pair programming to reduce learning curve on new Kotlin language implementation.
* Worked on an Agile team with 2-week of sprint cycles and 1-week retrospectives.
* Implementing MVVM Desgin pattern
* Interfaced with SQLite for storing information.
* Applied Picasso to download images and show them in the UI.
* Implementing RESTful call services on Android using Retrofit
* Fix bugs and create new Jira stories for the project
* Used Jenkins CI for continuous integration and testing.
* Implement TDD(Testing Driven Development) using Junit.

**Title:** Digital Student Workbook Framework **Oct 2021 – Jan 2022 Client:** Wall Street English

**Role:** Android Senior Developer at WSE

**Link:** [**https://play.google.com/store/apps/details?id=com.wsi.wallstreetenglish.nse&hl=en\_IN&gl=US**](https://play.google.com/store/apps/details?id=com.wsi.wallstreetenglish.nse&hl=en_IN&gl=US)

**Roles & Responsibilities:**

* Created own framework and integrated with Learn English App
* Implemented the latest RecyclerView to improve the User Interface.
* Programmed in Kotlin language.
* Used Bitbucket version control for the project
* Used Livedata, ViewModel, and Coroutines for handling concurrency threads for better resource consumption and network request asynchronously.
* Worked on an Agile team with 2-week of sprint cycles and 1-week retrospectives.
* Implementing MVVM Desgin pattern
* Implementing RESTful call services on Android using Retrofit
* Used Jenkins CI for continuous integration and testing.
* Implement TDD(Testing Driven Development) using Junit, Mockito and tested the UI using Espresso.

**Title:** Digital Student Workbook Player Framework **Apr 2021 – Sep 2021 Client:** Wall Street English

**Role:** Android Senior Developer at WSE

# Roles & Responsibilities:

* Created own framework and integrated with Learn English App
* Implemented with video-on-demand and/or linear video playback on ExoPlayer.
* Used Speechace API to assess and score a variety of speaking activities.
* Programmed in Kotlin language.
* Used Bitbucket version control for the project
* Used Livedata, ViewModel, and Coroutines for handling concurrency threads for better resource consumption and network request asynchronously.
* Implementing MVVM Desgin pattern
* Implementing RESTful call services on Android using Retrofit
* Fix bugs and create new Jira stories for the project
* Used Jenkins CI for continuous integration and testing.
* Implement TDD(Testing Driven Development) using Junit, Mockito and tested the UI using Espresso.

**Title:** Learn English App **Aug 2020 – Mar 2021**

**Client:** Wall Street English

**Role:** iOS Senior Developer at WSE

# App Store Link:

* **English (US) :** [**https://apps.apple.com/us/app/learn-english-with-wse/id1164595089#?platform=iphone**](https://apps.apple.com/us/app/learn-english-with-wse/id1164595089%23?platform=iphone)
* **Chinese (Simplified) :** [**https://apps.apple.com/cn/app/learn-english-with-wse-china/id1142370226?l=en**](https://apps.apple.com/cn/app/learn-english-with-wse-china/id1142370226?l=en)

**Roles & Responsibilities:**

* Core app for Wall Street English
* Used Bitbucket version control and Source Tree.
* Implementing MVVM, Observer and Delegation Design Patterns.
* Implementing RESTful call services using Alamofire
* Fix bugs and create new Jira stories for the project
* Used Jenkins CI for continuous integration and testing.
* Implement TDD(Testing Driven Development) using XCTest.

**Title:** Digital Classroom integrate with EnableX Video SDK **Mar 2020 – July 2020 Client:** Wall Street English

**Role:** iOS Developer at WSE

**Link:** [**https://play.google.com/store/apps/details?id=com.wallstreetenglish.dc.row&hl=en\_IN&gl=US**](https://play.google.com/store/apps/details?id=com.wallstreetenglish.dc.row&hl=en_IN&gl=US)

**Roles & Responsibilities:**

* Integrate EnableX Video SDK for Video call
* Used Socket.IO for live communication.
* Implementing MVC and Singleton Desgin pattern
* Implementing RESTful call services using Alamofire

**Title:** Interactive Active Player Framework **Nov 2018 – Feb 2020 Client:** Wall Street English

**Role:** iOS Senior Developer at WSE

# Roles & Responsibilities:

* Created own framework and integrated with Learn English App
* Used AVFoundation framework for Video Player.
* Used Speechace API to assess and score a variety of speaking activities.
* Used XCode for Swift development, developing the app using MVVM architecture throughout.
* Create user interfaces (UI) using both **storyboard and Xib and Auto Layout.**
* Implementing RESTful call services using Alamofire

**Title:** Digital Classroom integrate with Tokbox Video SDK **- GA Jan 2018 – Oct 2018 Client:** Wall Street English

**Role:** iOS Developer at WSE

**Link:** [**https://apps.apple.com/us/app/wse-digital-classroom/id1435467751**](https://apps.apple.com/us/app/wse-digital-classroom/id1435467751)

**Roles & Responsibilities:**

* Integrate Tokbox Video SDK for Live Video Stream
* Used Socket.IO for live communication.
* Create user interfaces (UI) using **storyboard and Auto Layout**
* Implementing MVC Desgin pattern, Cocoa design patterns and concepts like delegation, protocols.
* Used Core Data for storing information.
* Implementing RESTful call services using Alamofire

**Title:** Digital Classroom integrate with Tokbox Video SDK **- MVP Sep 2016 – Dec 2017 Client:** Wall Street English

**Role:** Android Developer at WSE

**Link:** [**https://play.google.com/store/apps/details?id=com.wallstreetenglish.dc.row&hl=en\_IN&gl=US**](https://play.google.com/store/apps/details?id=com.wallstreetenglish.dc.row&hl=en_IN&gl=US)

**Roles & Responsibilities:**

* Integrate Tokbox Video SDK for Live Video Stream
* Used Socket.IO for live communication.
* Used Bitbucket version control for the project
* Implementing MVC and Singleton Desgin pattern
* Interfaced with SQLite for storing information.

**Title:** Tax 2290 (Heavy Vehicle Use Tax Form 2290) - Android App **Jan 2016 – Sep 2016 Client:** Think Trade Inc

**Role:** Android Associate Developer at Jeevan

**Link:** [**https://play.google.com/store/apps/details?id=com.taxexcise&hl=en\_IN&gl=US**](https://play.google.com/store/apps/details?id=com.taxexcise&hl=en_IN&gl=US)

**Responsibilities:**

* + Involved in Design, Performance optimization, Coding, Testing, and Development of the application.
	+ Bug Fixing.

**Title:** Tax 720(Tax 720 Indoor Tanning Services) - Android App **Aug 2015 – Dec 2015 Client:** Think Trade Inc

**Role:** Android Associate Developer at Jeevan

**Link:** [**https://play.google.com/store/apps/details?id=com.taxform720.tax720&hl=en\_IN&gl=US**](https://play.google.com/store/apps/details?id=com.taxform720.tax720&hl=en_IN&gl=US)

**Responsibilities:**

* + Involved in Design, Performance optimization, Coding, Testing, and Development of the application.
	+ Worked along with the team and stakeholders in terms of user stories for the business requirements.

**Title:** Other Tax projects (Android Apps) **Aug 2012 – July 2015**

**Client:** Think Trade Inc

**Role:** Android Associate Developer at Jeevan

* + [**https://play.google.com/store/apps/details?id=com.taxcalculator2290**](https://play.google.com/store/apps/details?id=com.taxcalculator2290)
	+ [**https://play.google.com/store/apps/details?id=com.businessextensiontax**](https://play.google.com/store/apps/details?id=com.businessextensiontax)

# https://play.google.com/store/apps/details?id=com.extensiontax

**ACADEMIC PROFILE**

**B.TECH** in **Information Technology** from Periyar Maniammai University, India(2008-2012)**.**

# WORK EXPERIENCE

* Currently working as a **Lead Software Engineer** in **Jeevan Technologies INC**, Tennessee from Sep 2022 to till date.
* Worked as a **Lead Software Engineer** in **Wall Street English Pvt Ltd,** Chennai from Nov 2018 to Sep 2022.
* Worked as a **Senior Software Engineer** in **Pearson English India Pvt Ltd**, Chennai from Sep 2016 to Oct 2018.
* Worked as an associate in **Jeevan Technologies Pvt Ltd**, Chennai from Aug 2012 to Sep 2016.