

# Manoj Karthik Chinniah

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## PROFESSIONAL EXPERIENCE

### DOODLEBLUE INNOVATIONS | CHENNAI, TAMIL NADU

#### Technical Lead

August 2020 - May 2021

- Determined the design and layout of 10+ web applications using HTML, CSS and JavaScript with 100% accuracy by collaborating with a team of technical architects and designed the front-end architecture with the UI concepts of 15+ websites.
- Inspected client products and improved security by piloting server setup across AWS (Code Pipeline, WAF, SNS, S3 Bucket, EKS and ACM) and Azure (Azure DevOps, APIM, AKS, Key Vault and Container Registry), which was adopted in around 80% of the projects.
- Maintained documentation of various stages of product development (Technical, Deployment, Security and Testing), performed various testing before production push (Load testing, VAPT, API Testing and SSL Testing) and assessed reports (Code Review reports and API Reports) to make sure best practices were followed. This ensured client satisfaction, ensuring two fold project from the same client.

#### Software Development Engineer

August 2019 - August 2020

- Developed products with various SDKs such as Firebase, Facebook, and Google along with integration of Push Notifications and Crashlytics. Integrated various types of API Structures such as JSON, XML and Protobuf.
- Designed systems with offline storage, threading and asynchronous tasks using architectures such as MVP, MVVM and Singleton.

## SOFTWARE DEVELOPMENT PROJECTS

### Stock Market App | Android (Kotlin)

- Programmed an Android Application to handle buying and selling of shares. Executed best security practices like passing data in encrypted format (AES), integrating Biometric Prompt and using Retrofit for API Calls.
- Remodelled data in Room Database and Shared Preference, while Caching only non sensitive data, to support offline mode.
- Summarised data with animation using chart libraries like MPAndroidChart and Line Chart.
- Integrated Moengage SDK for Notification and In App Message Services, which was used for tracking User Click Action as well.

### Health Companion App | Android (Kotlin)

- Worked with APIs to connect to 3rd Party Platforms such as Facebook and Amazon web services. Integrated Facebook authentication to enable app users to use facebook login handle which increased the login rate by 20%.
- Participated in fast-paced development cycles, have completed 100% of deadlines ahead of schedule, along with unit tested code for robustness, usability and general reliability.
- Piloted agile development by leading and managing a cross-cultural partnerships team of 5.

### Online Shopping App | Frontend (Javascript)

- Developed an App for users to buy, sell, rent and alter clothes. Designed MVP Architecture for Modularity and Code Maintenance.
- Worked with HTML5, CSS3, JSON, JavaScript, Reactjs and ES6 for developing user interface.
- Enabled Google Analytics to track user behaviour and coordinated with recommender systems to prompt user actions.
- Implemented Firebase tools like Authentication, Storage, Crashlytics and Cloud Messaging.

### Blog Posting App | Frontend (Javascript)

- Monitored and improved front-end performance by 15% and documented application changes and worked on updates.
- Developed the latest user-facing features using React.js and built reusable component for future use.
- Used Firebase's onSnapshot method to update the database with each new post by creating a real-time database with Firestore (to combine scalability with readability).

### Train reservation System | Backend (NodeJs)

- Created and maintained architecture for Restful API using NodeJs. Collaborated with cross-functional teams to define and design new features using basic CRUD operations.
- Performed Data Modelling and Database Architecture designing and sent data to the front end in JSON format with low latency.

## EDUCATION

### Master of Science | Computer Science and Systems

September 2021 - December 2022

University Of Washington | Tacoma, Washington

- Working as a Student Ambassador for the campus
- Major Courses : Advanced Algorithms, Artificial Intelligence, Bioinformatics, Machine Learning, Distributed Computing.

### Bachelor of Science | Computer Science

August 2015 - May 2019

Anna University - College of Engineering, Guindy | Chennai, Tamil Nadu, India`

- CGPA : 4.0/4.0

## SKILLS

**Core :** Design and Analyzing Algorithms, Object Oriented Programming, Technical Leadership, Creative Thinking, Technical Project Management, Ownership, Product Development, Strategic Planning, Machine Learning.

**Technical :** Javascript, Python, Octave, Java, Kotlin, Agile Methodologies, Unit Testing / Mock Testing, Load Testing, Vulnerability and Penetration Testing, GIT, AWS, SQL, Firebase, Code Review, Server Architecture, Wordpress, Android App Development.

**Certifications :** Machine Learning (Stanford University), Deep Learning Specialization (Deep Learning.AI by Andrew Ng)