ANUSHYA SIVANUPANDIAN

# ACADEMIC QUALIFICATIONS

**Master of Science** (Information Technology), Arizona State University, Tempe, Arizona **Aug’22 - May’24** Coursework: Cloud Architecture, Adv. Big Data Analytics/AI, Data Visualization CGPA 4.0/4.0

**Bachelor of Technology** (Electronics and Communication Engineering), VIT, Vellore, India **Jun’17- July’21** Coursework: Data Structures and Algorithms, Operating Systems, Computer Organization  
 and Architecture CGPA 8.79/10

# TECHNICAL SKILLS

**Languages:** Kotlin, Java, Python, C++, SQL, HTML, CSS **Databases:** MySQL, Microsoft SQL Server, PostgreSQL **Android Skills**: Firebase, Firebase Cloud Messaging, Firebase Analytics, Google Maps, Dagger Hilt, Koin, Navigation Graph, Coroutine, Root Beer, Apps Flyer, Retrofit, Junit, Espresso, Constraint Layout, Material Design, Compose, Live Data, Shared Preferences, Data/View Binding, Glide, Gson, Lottie, Picasso, MVVM Clean Architecture, MVP, Room, GraphQL

**Other Tools:** Docker, Hadoop, Shell Scripting, ETL, Android Studio, Tableau, PowerBI Postman, GitHub, SonarQube.

**WORK EXPERIENCE**

**Mobile App Developer, Go Together, Tempe Jun’23- May’24**

* Implemented a user-friendly carpooling android application that allows users to organize carpools for their kids for transportation and developed features by achieved engaging and responsive UI’s using Jetpack Compose.
* Revised the app to Kotlin utilizing MVVM architecture for improved code maintainability, derived unit tests for application reliability and integrated AWS for backend efficiency, enhancing app performance and security.

# Senior Android Developer, Capgemini Technology Services, Mumbai Jun’21-Jul’22

* Overhauled SMART (formerly GigaLife)- a popular Telecom application ([Playstore Link](https://play.google.com/store/apps/details?id=com.smart.consumer.app&hl=en_US&gl=US)) with 10M+ downloads satisfying needs of the Filipino and analyzed operational feasibility and performed code reviews, enhancing user experience in collaboration with cross functional teams, utilizing Agile methodologies.
* Demonstrated expertise in mobile architecture using MVVM/MVP frameworks, and in integrating Android apps with Restful APIs. Employed CI/CD pipelines using Jenkins which facilitated automated builds, real- time monitoring, efficient deployment and high-quality application performance.

Impact: Reduced computational time by 45% through load balancing across multiple active instances.

# Android Developer, Capgemini Technology Services, Pune Feb’21-Jun’21

* Utilized Android Studio to develop various kinds of applications on Android development using Kotlin language incorporating components like Coroutines, Room Database, Android Jetpack.
* Developed a social networking mobile application designed specifically for the business community using Firebase database and cloud messaging and used multiple native android elements for better UI/UX.

# PROJECTS

**AWS Lambda-based Facial Recognition System | Cloud Computing Dec’23**

* Designed and developed a robust facial recognition application using AWS Lambda, AWS S3, and S3 event notifications and achieved real-time data retrieval for recognized individuals.
* Leveraged Docker and AWS ECR for efficient containerized deployment and utilized DynamoDB for streamlined data storage and retrieval, Lambda functions to reference detected faces with database records.

# Spatial Analysis Using Apace Spark | Big Data Dec’23

* Developed a distributed application using Spark APIs and Hadoop filesystem.by performing range and distance queries for efficient data retrieval and optimized application performance for enhanced efficiency.
* Applied advanced spatial statistics to analyze spatial-temporal data and identify hotspots by utilizing Spark SQL for complex computations and hosted on AWS EC2 for handling intensive data processing.

# ConnectIn – Social Networking App | Android Application May’21

* Implemented a networking Android application where every user can get them connected with other users along with organizations globally. This is a prototype of a social networking application like LinkedIn.
* Utilized various Android Jetpack components like Data Binding, Navigation and Paging to achieve a good user experience and integrated PostgreSQL for backend data storage and retrieval**.** The link towards the project is [**here.**](https://github.com/ConnectInApp/FinalConnectIN)

# Brain Tumor Detection and Classification Using CNN and ANN | Machine Learning Jan’21

* Trained a neural model network model in Python to detect the Tumors from the given MRI Brain scan images.
* Increased the test accuracy by using K-Fold Cross Validation method even if there are fewer number of datasets available. After each fold, the learnt weights are initialized to the weights that were stored just after compiling the model. Accuracy was found to be more in 10-fold cross-validation.

# CERTIFICATIONS

**AWS Certifications: AWS Certified Solutions Architect Associate (pursuing) Microsoft Certifications: Azure Fundamentals**

# LEADERSHIP

* **Management Head**, Institute of Electrical and Electronics Engineers - Women in Engineering
* **Teaching Assistant,** Assisted professors for courses - Operating Systems, Computer Organization and Architecture, Neural networks, Digital signal processing, Object-Oriented programming.