

# LIKHITH HARISH ANUMUKONDA

📁 : Portfolio | ✉ : [likhithharish.anumukonda@stonybrook.edu](mailto:likhithharish.anumukonda@stonybrook.edu) | 🌐 : [/likhith-harish](https://github.com/likhith-harish) | 🌐 : [/likhithharish](https://www.linkedin.com/in/likhithharish) | ☎ : 631-805-3930 | 📍 : NY

## Education

### Stony Brook University

Aug. 2022 – Dec. 2023

*Master of Science in Computer Engineering, (GPA: 3.81/4.0)*

*Stony Brook, NY*

### Indian Institute of Information Technology, Design and Manufacturing

Sep. 2015 – May. 2019

*Bachelor of Technology in Mechanical Engineering, (GPA: 8.11/10.0)*

*Chennai, India*

## Work Experience

### Tata Consultancy Services Pvt. Ltd

Sep. 2019 – Jun. 2022

*Software Engineer*

*Hyderabad, India*

- **ICICI App Development (Android/iOS):** Worked on both Android Frontend and SpringBoot Backend Development.
- Implemented a solution to prevent **UPI fraud** through Mobile Number swap. Modified the existing UPI module architecture and overall schema of the **Oracle database** that can prevent fraud for about **40% potential users**.
- Designed the new app flow for the login and activation **Android User Interface (UI)** that securely authenticates users and restricts access to users below 4 lower app versions. Worked on migrating backend functionality to **Android native SDKs** to reduce back-end dependency.
- Collaborated on performance-driven **API services** development and consumed **RESTful** web services in various app modules. Integrated **Dynatrace app performance monitoring** package to gather real-time analytics.
- Programmed a user-centric offer **Recommendation Web Service** that can handle a vast user load (**approx. 12000 requests/minute**), decreasing the average response time to **less than 200ms**.
- **Technologies:** Android, Java, JUnit, Spring Boot, Spring Security, Microservices, Oracle DBA, JDBC, SQLite, KnockOut Js, Android Studio, Cordova, SVN, Agile development, Sprint Planning, Analytics Management, API, Android SDK Management.
- **DBS Bank Web Development:** Assisted in the development of the **Front-end** of a web application using **Typescript** and the **Angular** framework. Built **reusable and scalable Angular components** for various modules.
- Executed unit tests using Jasmine & Karma to ensure the quality of the code and identified and fixed bugs in the codebase.
- **Technologies:** HTML, CSS, Bootstrap, JavaScript, Angular 8, Typescript, Git, MongoDB, Firebase, Google Analytics.

### Tata Motors

May. 2018 – Oct. 2018

*Software Intern*

*Pune, India*

- **Defect Tracking & Predictive Analysis:** Focused on achieving zero defects in the BIW line of Xenon vehicle. The data collected from PLC is processed using **Principal Component Analysis** and defects are predicted using **regression models**.
- The predictions are displayed on the **R shiny dashboard**, including an automated KPI report generation each day. The process followed by manufacturing changes **reduced overall defects by 15% per station**.
- **Technologies:** R, PLC programming, Multivariate regression, Support Vector Machine, PCA, (KPI) report.

## Skills

- **Languages:** Java, Python, C, R, SQL, HTML, CSS, JavaScript, Typescript, MATLAB, React JS, Angular.
- **Frameworks/Tools:** Spring MVC/Security, Spring Boot, Hibernate, Oracle DBA, JDBC, MongoDB, Bootstrap, Keras, Tensorflow, Git, Node JS, Express, Android, Retrofit, ROOM, MVVM, Dagger-HILT, Canvas, Docker, Flask.
- **Coursework:** Data Structures & Algorithms, Network Security, Machine Learning, Digital Image Processing.

## Projects

**Note Taking Android App** 📄 | *Jetpack Compose, MVVM Architecture, ROOM Db, Dagger-HILT DI, Canvas.* **Feb. 2023**

- Designed and programmed a note-taking Android app that is responsive and can be scaled with further integration utilizing existing Clean Architecture. A special feature is the card view of the note and automatic resizing beyond 10 lines using Canvas.

**FP Growth & Decision Tree Implementation** 📄 | *Python, Pandas, Numpy, Sklearn, Matplotlib.* **Sep. 2022**

- Executed FP growth & Decision Tree algorithms (using GINI Index, Gain Ratio, Information Gain) in Python from scratch without using existing libraries. Tested the algorithm on various benchmarks and achieved an average accuracy of 85%.

**Recommendation system** 📄 | *Python, BeautifulSoup, GeoCoder, FourSquare API, Clustering Algorithms.* **Jan. 2021**

- Developed a system for providing recommendations to open a restaurant by using neighborhood data in a city. Predictions are provided using Clustering algorithms(KNN) and visualized in a map view.

**Image Enrichment AI Hackathon** 📄 | *Python, OpenCV, Tensorflow, Pandas, Keras.*

**Dec. 2020**

- Utilized OpenCV methodologies in Python for Watermark Removal, Rotation Adjustment, Skewed Images, and Blacked Images. The methods implemented were able to correct 60% of the dataset shared for the AI Hackathon Challenge.

## Leadership Experience

- **Graduate Student Assistant:** Stony Brook University Libraries. Responsibilities include maintaining students' records and assisting students with research.
- **Digital Developer:** Achieved the tag with 100% compensation for being the top performing employee across the organization and received this role within 1 year of joining.
- Presented a talk on NLP text mining on the web for an audience of 400 at TCS. Received an 'A'-band review rating for my work for three years at Tata Consultancy services.