

# Karthick

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## EDUCATION

### NIT-TRICHY

B.TECH IN COMPUTER  
 SCIENCE AND ENGINEERING  
 Graduated. May 2021  
 CGPA: 8.99/10.0

## LINKS

Github:// [karthick191999](#)  
 LinkedIn:// [karthick](#)  
 Leetcode:// [santa\\_claus](#)

## COURSEWORK

### UNDERGRADUATE

Data Structures and Algorithms  
 Operating Systems  
 Combinatorics and Graph Theory  
 Data Communication and  
 Networking  
 Database Management System  
 Data Warehouse and Data  
 Mining  
 Machine Learning  
 Data Science  
 Principles of Compiler Design  
 Principles of Cryptography  
 Artificial Intelligence and Expert  
 Systems  
 Discrete Mathematics

## SKILLS

### PROGRAMMING LANGUAGES

C • C++ • Java • Python

### FAMILIAR

• Terraform • Javascript • Shell  
 Scripting • React • Pandas •  
 SpringBoot • MongoDB • Go •  
 Android • MySQL • Linux

### OTHER TOOLS

• Git • Github • Android Studio •  
 InfluxDB • Grafana

## CERTIFICATIONS

• Android App Components –  
 Intents, Activities and Broadcast  
 Receivers (Vanderbilt University,  
 USA)

## EXPERIENCE

### GOLDMAN SACHS | ANALYST (SOFTWARE AND TECHNOLOGY ANALYST)

July 2021 - Present | Bangalore, India

- Working with Automation and Tools development team based globally primarily with **Springboot, React and MongoDB**.
- Migrated and provisioned infrastructure for all of our tooling services using **Terraform** and firm proprietary cloud provider, helped in scaling and expanding the deployment of our services/tools from 1 to 3 different regions, spanning through multiple data centers.
- Currently responsible for the design, implementation and ownership of the order tracing tool, which reduces the order tracing time of the front desk from 5 mins to 15 sec – a **95%** decrease. The work here involved communication between different cross functional teams and compliance.
- Also responsible for designing and enhancing **Monitoring and Alerting system** for electronic trading platform. Beyond simple threshold-comparisons, system can alert based on trends and intelligently conflates related alerts to reduce noise. Added 5 new alerters, to increase the alert coverage globally.

### GOLDMAN SACHS | SUMMER ANALYST (TECHNOLOGY ANALYST)

May 2020 – June 2020 | Bangalore, India

- Worked on the SRE team in primarily Perl and Python to plan, design and push time series data into **InfluxDB** and visualize the time series data using Grafana, which was used by the stakeholders.
- Achieved a **5x** decrement in user analysis time where more than **10,000** queries and Log data of time series data were pushed per day into InfluxDB using REST API's.
- Automated and built a dynamic dashboard in **Grafana** to visualise the same.

## PROJECTS

### TRANSLATE ON THE GO APP | JUL'20 | [LINK](#)

OCR | Google Vision API | Volley | TextToSpeech API | Web API

- An OCR translation app that captures English text using phone camera and translates to an Tamil, Italian language and provides audio for the translation as well.
- Used Google Vision API to recognise the text from the image that is to be translated.
- Translation was done using a web API and responses were obtained using Volley, and TextToSpeech API was used to convert the translation into speech.

### MUSIC-MATCH APP | MAY'18 | [LINK](#)

MUSIC-MATCH API | RETROFIT | SQLITE DATABASE

- A simple app which shows the user the top tracks and top artists of a given country or globally.
- The user can pick any artist or track in order to get the details about them, the user can select their favorite artists and tracks whose details will be stored locally in a local database.
- Used Music-Match API and Retrofit library to get the details dynamically from the internet and SQLite Database to store the details of the favorite tracks and artists.

### TO DO LIST APP | MAY'18 | [LINK](#)

SQLITE DATABASE | ALARM MANAGER | BROADCAST RECEIVER

- A to do app where users can enter their tasks to finish or do, the app includes features to include deadlines for those tasks
- The app can notify the user based on the task completion according to its deadline, used SQLite Database, Alarm Manager and Broadcast Receiver to achieve the caching and notification functionality.