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
- Developed and maintained 4 microservices using **Springboot, MongoDB** along with **React and Terraform** for the global Automation and Tooling team.
- Used React to build a responsive user interface for a customer-facing dashboard.
- Improved resiliency of our existing tooling services by **200%** by migrating and provisioning infrastructure for the services using **Terraform** and firm proprietary cloud provider, by expanding from 1 region to 3 regions, spanning across multiple data centers.
- Reduced order tracing time by **95%** by designing and implementing an order tracing tool, resulting in significant reduction in manual work for our traders.The work here involved communication between different cross functional teams and compliance.
- Increased and added alerting to our tooling services by instrumenting them and generating alerts on the back of metrics collected, which lead to a significant reduction in service downtime.
- Increased alert coverage globally by **50%** by adding 5 new alerters to the **Monitoring and Alerting system**. Beyond simple threshold comparisons, the alerters can alert based on treds and intelligently conflate related alerts to reduce noise.

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
- Developed an OCR translation app that captures English text using the phone camera and instantly translates it to Tamil or Italian languages, providing audio for the translated text.
- Utilized Google Vision API for text recognition and Volley for making web API calls.
- Incorporated TextToSpeech API to convert the translation into speech.

MUSIC-MATCH APP | MAY'18 | LINK
MUSIC-MATCH API | RETROFIT | SQLITE DATABASE
- Created an Android app that displays top tracks and artists of a given country or globally.
- Integrated Music-Match API and Retrofit library to dynamically fetch details from the internet.
- Implemented SQLite database to store details of the user's favorite tracks and artists.

TO DO LIST APP | MAY'18 | LINK
SQLITE DATABASE| ALARM MANAGER| BROADCAST RECEIVER
- Designed and developed a feature-rich to-do app for Android, allowing users to enter tasks, set deadlines, and receive notifications.
- Implemented SQLite database to store tasks and deadlines.
- Utilized Alarm Manager and Broadcast Receiver to schedule and trigger notifications.