Tilak Madichetti

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SKILLS

TECHNICAL SKILLS

Proficient with:
- Algorithms and Data Structures in C++
- HTML 5 • CSS 3 • SASS • Javascript(ES6) • React JS • Next JS • Node js • Keystone JS • Docker • Prefect • Python 3 • Google Firebase Firestore • Postgres SQL • Express.js

Familiar with:
- Java • Linux Bash • Airflow • Python Flask • PHP • Mongo DB • Flutter • Google Cloud Platform • SwiftUI iOS app development • Gatsby JS

SOFT SKILLS

Outstanding:
- Blogger (link) • Bilingual (*English*, *Telugu*)
- Leader • Motivator • Public speaking

COMMUNITY

STACKOVERFLOW

Link to Profile

2014 - Forever | Internet
Reputation of 3000+ and reached 1.9 million+ people. I have received 2 Gold badges, 27 silver badges and 47 bronze badges.

EDUCATION

NIT-K

2019 - Present | Mangalore, KA

SINDHI HIGH SCHOOL - CBSE

2016 - 2018 | Bangalore, India

PRESIDENCY SCHOOL

2004 - 2016 | Bangalore, India

WORK EXPERIENCE

FULLSTACK DEVELOPER INTERN | STARTUP (Last employer)

Decision Sciences And Analytics Private Ltd. | Oct - Dec 2021 | 2 months
- Built a Full load big data pipeline from PostgreSQL to Google BigQuery using Airflow DAGs and created API endpoints on the Python Flask Server to track the status of ingested events, trigger runs, pause and play scheduled pipelines, etc
- Proposed a change to migrate to Prefect as an orchestration tool for various reasons and re-wrote the ETL codebase and endpoints. This allowed me to create parallel running ETL pipelines for all the tables in a database within the same flow.
- Deployed the system to Google Cloud Platform, tested with Real life data. Record run was 1.5 million records in under 4 minutes (when both locations were in us-central-1). When locations were different average was about 38 minutes
- Created React Components in JSX that would talk to the Flask server endpoints and render data.

TECHNICAL PROJECTS

CLUB INVENTORY MANAGEMENT TOOL | WEBSITE | GITHUB

Fullstack Web App - Keystone, Next JS, Mongo DB Stack
- Graph QL queries and mutations, cache invalidation, ACL permissions
- Charging credit cards, Hosting and transforming images
- Forms in React, loading and error state, animation

TWITTER CLONE | WEBSITE | GITHUB

Fullstack Web App - Node JS, Express, Mongoose, Pug, jQuery
- Designed API for posts, retweets, comments, and likes
- Realtime personal chat and group chat with Web Sockets
- Upload images to server, follow and unfollow users, pin tweets

MAKE MUSIC WITH YOUR EYES | WEBSITE | GITHUB

Frontend Web App - Vanilla Javascript, Eye Detection API
- Move your eyeballs around the screen to play beats
- Neumorphism design in CSS to build a soft interface

SHOP APP | GITHUB

Flutter Mobile App
- Manages Firebase authentication with token capture
- SharedPreferences to store temporary data in the app

CERTIFICATIONS

ALGOEXPERT CERTIFICATE | Link to Certificate

- Solved 100 questions on Binary Search Trees, Dynamic Programming, Graphs, Heaps, Stacks, Linked Lists, Recursion, Strings and Tries

SYSTEMSEXPERT CERTIFICATE | Link to Certificate

- Learnt about Client-Server model, IP and TCP protocols, latency, throughput, availability, proxies, load balancers, leader election, polling & streaming, rate limiting, Pub-Sub pattern, Map reduce, etc.