

Robin J

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EDUCATION

BE. Computer Science Engineering
KONGU ENGINEERING COLLEGE
CGPA: 9.56

Erode, TamilNadu, India | 2023

EXPERIENCE

CASA RETAIL AI | PRODUCT ENGINEER (SDE) INTERN

TamilNadu, India | May 2022 – Present

- Migrated a part of the database from ElasticSearch to Clickhouse.
- Wrote a query builder to dynamically build sql queries from conditions which can be dynamically set from the UI.
- Came up with the optimal data structures to store OLAP data in Clickhouse which we ended up using.
- Tackled the various OLAP update/delete problems efficiently.
- These reduced the query time from not-usable to under 4 seconds.
- Worked with Kafka Stream data. Wrote a service which listens to Kafka stream and writes to the database after needed data transformations.

ARIMA LABS | FREELANCER

TamilNadu, India | Aug 2021 – Dec 2021

- Developed a dashboard using **React** and **TypeScript** to visualize vehicle data passing through traffic signals.
- Built the backend using **Django** and connected it to **MySQL DB**.
- Redesigned database schema, implemented pagination and wrote enhanced queries which increased the speed upto 10 times.
- Implemented Django authorization to ensure that only authorized personnels have access to the application.
- Wrote an efficient infrastructure in NodeJS to store and deliver millions of images that increased the server speed significantly and reduced the ram usage by 50%.
- Wrote an efficient infrastructure in NodeJS which can convert **rtsp** to http video streams.
- Exceeded requirements in each stage, which lead to the application being pushed to production.

HOODS | FREELANCER

TamilNadu, India | Oct 2021 - Jan 2022

- Developed a Social Media Application using **Flutter** and **Firebase** which has its niche in local communities
- Used **Firebase Cloud Messaging** to send push notifications to enhance user experience
- Wrote **Firebase Cloud Functions** to trigger various automated events.
- Integrated Firebase's Realtime DB with Firestore to track users' online/ offline status
- Used **ObjectBox** to cache various parts of the app like user chats to speed up the application which reduced the bandwidth usage by 30%.
- Used **GetX** as state management tool.
- Wrote **efficient** and **readable** code which received appreciation from fellow developers.

PROJECTS

ALGORITHMS VISUALIZER

REACT, DSA

A visualizer built with ReactJs to visualize various **Path finding** and **Sorting** algorithms. Like Dijkstra's algorithm, A* algorithm, Merge Sort, Quick Sort, Heap Sort, etc.

PORTFOLIO

NEXTJS

My Portfolio website built using NextJs.

SPOTIFY LYRICS FINDER

FLUTTER, FIREBASE, SPOTIFY API, GENIUS API, AUTHENTICATION, CACHING

A mobile application built using Flutter to get the lyrics of the song you are currently listening to on Spotify. I've used Spotify OAuth to connect to the spotify account. The lyrics are fetched from Genius api.

FLAPPY BIRD

A simple Flappy bird game built using html and p5js.

P5JS, CSS, HTML

SKILLS

Languages: Python, Js, Golang, C++, Java, C, C#, SQL

Frameworks: Flutter, React, NextJs, NodeJs, Django, ElectronJs

Technologies: Firebase, Digital Ocean, Unity, MySQL, Clickhouse, MongoDB, Git, Docker, Figma

Soft Skills: Communication, Team work, Emotional Intelligence, Growth Mindset, Culture awareness