

Robin J

robinjeyasingh@outlook.com | +91 97880 79110 | [linkedin/robinjeyasingh](https://www.linkedin.com/in/robinjeyasingh) | [github/robin-jr](https://github.com/robin-jr)

EXPERIENCE

COMMERCEIQ | SDE

Bangalore, India | Dec 2022 – Present

- Migrated a part of the database from **ElasticSearch** to **BigQuery**. This optimized the analytics dashboard from more than 30s load time to less than 4s.
- Setup **GitHub CI/CD** pipeline with **GCP** for easier and faster integrations and deployments. This cut down hours of manual work and automated the whole process.
- Worked with **DBT**, for large-scale data transformations for analytical data.
- Hands-on experience with systems design, architecture, and scaling the product using Google's **Terraform**, **Kubernetes**, **Docker**, etc.

CASA RETAIL AI | PRODUCT ENGINEER (SDE) INTERN

Chennai, India | May 2022 – Dec 2022

- Migrated a part of the database from **ElasticSearch** to **Clickhouse**.
- Wrote a query builder to dynamically build SQL queries from conditions that 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 that 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 up to 10 times.
- Implemented **Django authorization** to ensure that only authorized personnel 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.

AMMAMMA'S | FREELANCER

TamilNadu, India | Aug 2020 - Nov 2020

- Developed a full-fledged E-Commerce Application using **Flutter** and **Firebase**.
- Users can order products, leave reviews, pay online, view orders, etc.
- Admin can manage products, orders, users, etc.
- Integrated **stripe** to enable user payments.
- Built a separate internal app to track delivery and order status.
- Released the app in **Play Store**. The app has got over a thousand downloads and 4.6 star ratings.

OTHER PROJECTS

UNITY GAME DEVELOPMENT [↗](#)

UNITY3D, UNITY2D, C#

Made several games with Unity2D and Unity3D with C#. 3rd Person shooter, Flying jet, Ping pong. Developed several interesting gameplays, and built the whole environment, ecosystem, and assets from scratch.

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 where I showcase few of my projects and works

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 [↗](#)

P5JS, CSS, HTML

A simple Flappy bird game built using HTML and p5js.

SKILLS

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

Frameworks: Flutter, React, NextJs, ExpressJs, Django, ElectronJs, Unity3D, Unity2D, Blender

Databases: Firestore, MongoDB, MySQL, Clickhouse, MongoDB, Postgresql, BigQuery

Cloud: Digital Ocean, AWS, GCP, Azure

Other: Firebase, NodeJs, Git, Kafka, CI/CD, Docker

Design: Figma, Canva, Adobe XD, Blender

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