



# Harish Sambasivam

## Software Engineer

Tech Enthusiast by passion and an engineer by nomenclature with core hands-on experience in implementing solutions using a wide range of technologies. Presently looking for an exciting full stack or backend engineering role.

✉ imharishsambasivam@gmail.com

📍 Kumbakonam, India

🐙 [github.com/harishsambasivam](https://github.com/harishsambasivam)

📞 6369398350

🌐 [linkedin.com/in/harishsambasivam](https://linkedin.com/in/harishsambasivam)

## WORK EXPERIENCE

### Software Engineer Byju's (Think & Learn)

03/2022 - Present

Bangalore, India

#### Achievements/Tasks

- led and managed the development activities for the post-call analytics system at Byju's, which involved automating the entire voice call auditing process
- Delivered \$27,000 monthly savings by optimizing AWS cloud resources through the network, compute, and storage analysis and implementing necessary changes.
- Designed and developed a MERN Stack application for managing in-house mongo clusters, serverless functions, and triggers through a user-friendly UI, similar to Mongo Atlas.
- Developed and managed the user management service, the centralized authentication service for Byju's microservices.
- Accomplished the implementation of end-to-end distributed tracing and application monitoring for over 15 services, resulting in improved monitoring of service dependencies, efficient error identification, and reduced production incident MTTR
- Executed many prototypes and POC's to determine how well they meet the technical requirements.

### Associate Software Developer Zappyworks Software Solutions

05/2021 - 03/2022

Chennai, India

#### Achievements/Tasks

- Contributed to the development of political campaign software that enabled a party to go fully paperless.
- Successfully migrated serverful REST APIs to serverless, achieving auto-scaling on-demand, improved availability, and reduced costs.
- Implemented and delivered multiple complex backend projects involving OAuth, data modeling, query optimization, and integrations.
- Designed and developed reusable components and dashboard widgets using ReactJS.
- Provided technical guidance to the team and conducted code reviews to ensure adherence to coding standards.

### Backend Developer (Freelance) Huut - Voice first social media platform

12/2020 - 04/2021

Chennai, India

#### Achievements/Tasks

- Contributed to the development of a user feed service, involving timeline fetching based on likes, comments of followee, merging duplicate posts, and removal of blocked user posts.
- Implemented user service endpoints for user creation, following, contact syncing, and blocking.
- Developed UI for monitoring reported posts and users using ReactJS.
- Developed API tests using Postman and performance test scripts using k6 to ensure service stability for various microservices.

## SKILLS

JavaScript

NodeJS

ReactJS

TypeScript

MongoDB

PostgreSQL

Data Modelling

AWS S3

Microservices

System Design

AWS Cloud

Message Queues

AWS Lambda

Serverless Architecture

Data Structures

Algorithms

Problem Solving

Test Driven Development

Performance Engineering

Distributed Tracing

APM

Data Lake

ETL/ELT

Infrastructure as Code

CloudOps

K6

Jest

Github Actions

AWS CDK

Python

## PROJECTS

### Post Call Analytics ( Call Auditing System)

- Lead development activities of post and pre integration microservices
- Improved the ETL performance by hive partitioning the data lake
- Optimised SQL queries to reduce data scanned from data lake and improve performance
- Aided in translating business requirements to technical specifications

### BYJU's User Management System

- Maintained the central identity and access management for the B2B landscape.
- Contributed to troubleshooting on various production issues and provide resolution in short turn around time.

### Huut

- Involved in 0 to 1 development of huut and delivered the backend microservices on planned timeline
- Helped identifying performance bottlenecks of backend services using k6 performance tests and benchmarks
- Implemented rate limiting to secure backend services from dos attacks

## ACHIEVEMENTS

Reduced \$27,000 monthly AWS cost by optimizing the resources.

Scaled the Infrastructure of user management system to 1000 rps for BYJU's AP Government app launch

Reduced 70% of production incidents by implementing APM and alerting.