

# DIVYANSHU RAJ

Software Developer Engineer



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## WORK EXPERIENCE

### Software Developer[FULL-TIME]

Nobroker.com

06/2022 - Present

Bangalore, India

- Designed the **TEJAS** microservice, facilitating smooth synchronization between an online forum and email threads. Implemented secure authentication and bidirectional updates, leading to a **30% increase** in user engagement. Scaled the infrastructure using **Kafka** and addressed race conditions in a distributed environment using **Redis Distributed Locks**.
- Implemented **Distributed Rate Limiter** using Sliding window and **Redis Sorted Sets**.
- Implemented **Two-Factor Authentication** for Admin Login by utilizing the speakeasy Node.js library and Spring Filters. Employed the **Cache-Aside caching pattern** to store and synchronize data with **Redis and MySQL**.
- Implemented the **gRPC** infrastructure in the organization to leverage its HTTP/2 multiplexing and technology-agnostic nature, bringing down overall cpu usage cost, and **increasing speed by 5%** on the main listing page.
- Transformed Stagemonitor, **an open source java library** to display JSON-formatted HTTP request body on Kibana, greatly enhancing data analysis.

### Software Developer [INTERN]

SaaS Labs

08/2021 - 12/2021

Remote

- Led and supervised a team of four interns, successfully initiating and developing the DIALWORKS project from inception to completion within a tight timeframe of two months.
- Employed Node.js and WebSockets to create a high-performing web server, automating OpenAPI Spec generation through Swagger and reducing manual effort by **70%**.
- Built React.js app with hooks and Material-UI, achieving **40% higher** user engagement and **25% lower** bounce rate through appealing, responsive interfaces.

### Student Software Developer [INTERN]

Google LLC - Google Summer Of Code

05/2020 - 08/2020

Remote

- Implemented the ECMAScript5 Module System, a significant enhancement to the p5.sound open-source library; replaced the outdated Asynchronous Module, resulting in a **40% reduction in load time** and improved overall performance.
- Spearheaded the design and deployment of a headless testing architecture to CI/CD servers, revolutionizing the testing process by eliminating browser-based bottlenecks; achieved a **45% reduction** in test execution time and increased overall productivity.
- Engineered a seamless transition from the deprecated ScriptNodeProcessor to the AudioWorklet framework, improving audio processing efficiency and reducing **CPU utilization by 30%**; enhanced audio quality for **700k+ users**.

## EDUCATION

### Bachelor of Technology

Indian Institute of Technology  
Roorkee

08/2018 - 08/2022

Roorkee, Uttarakhand, India

## SKILLS

Java

Spring Boot

GCP

SQL

CI/CD

Docker

kafka

Redis

Data Structures and Algorithms

Node.js

HTML

React.js

Javascript

MongoDB

CSS

Elasticsearch

Kibana

Kubernetes

## OPEN SOURCE PROJECTS

firefly-react (08/2021 - 09/2021)

- Architected and deployed a groundbreaking React.js plugin that infused react-based websites with immersive interactive animations.
- Developed this innovative project using Rollup for bundling, merged physics and animation with OOP principles, and incorporated web APIs like Canvas and requestAnimationFrame to craft captivating user experiences.
- Achieved an impressive milestone of surpassing **2220+ downloads on npm**, showcasing widespread adoption and recognition of the library within the developer community.
- [view project](#)

## PUBLICATIONS

Technical Article at Medium.com

### React Reconciliation, you did not know!

18/01/2023

Authored and published an in-depth article on core React.js concepts, including the react-reconciliation algorithm. Incorporated personal insights and provided illustrative code sandboxes to enhance understanding of these principles. [view article](#)