

Kartik Tomar | Full Stack Developer

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Work experience

Software Engineer II

[Phable Care](#) | Jun 2022 - now | Fullstack developer*

Worked on building features for doctors' day-to-day activities like writing prescriptions, consultations and payments, used by **1M Users**. Used **ReactJS** for building web and **React Native** for android and ios applications with backend in **NodeJS** and **MongoDB**

Increased Development speed

- Modularized the entire web app
- Created micro frontends (**Atomic design**) to be used across teams

Optimizations

- Set up the configuration for **webpack** for the production application for low bundle size.
- Optimized API calls by **5x**, decreased the number of database calls, improved the complexity of the processing of data

Software Engineer

Double Slit Media Tech | Jun 2020 - May 2022 | Fullstack developer

Worked on building various products from the ground up with different technologies like video calls (webRTC), Real-time communication etc.

SuperPro

- Implemented authentication, real-time communication, and cloud storage using google **firebase**
- Increased the scope of the platform by integrating multiple video call to third-party services ([daily.co](#), [100ms](#), [Agora](#)) with the capability to switch between these services

Unmaad 2021 | IIM Bangalore

Led the project to build an online platform for hosting IIM Bangalore's Cultural Fest. It had **live streaming, chat, reactions, dynamic space for sponsors** and etc

- Implemented a third-party service to stream live events - backend & frontend for **80K participants** in 3 days and **20K** concurrent users
- Increased the visibility of festival sponsors
 - Specific zones for sponsors & real-time banner updates in different arenas and stages while different sponsored events are happening
- Increased participation of users
 - Realtime updates of scores of different teams participating from different colleges & Realtime shoutout of messages according to arenas, stages
- Increased passive participation
 - Entire platform was optimised for mobile phones
 - Send emojis while an event is going on & Popping up messages

[Vayam](#)

Vayam is an online event-hosting platform with video calls, live streaming, chat, and participant list, like features.

- Reduced QA time by implementing end-to-end test cases using **puppeteer**
 - Improved the web platform concurrency from **5K to 100K** concurrent users by introducing multi-threaded working using [web-workers](#)
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Education

Full Stack Development Bootcamp

AttainU | 2019 - 2020

Mechanical Engineering

SRM Institute of Science & Technology | 2014 - 2018

Skills & Technologies

- HTML, CSS & SASS
 - Javascript, Web workers, React, Redux & Puppeteer
 - Webpack & Bable
 - NodeJs & Express
 - MongoDB & Firebase
 - Data Structures & Algorithms
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Projects & [Tech Blogs/Articles](#)

[RSA Encryption](#)

September 2022 | [Demo](#)

RSA encryption, in full Rivest-Shamir-Adleman encryption, type of **public-key cryptography** widely used for data encryption of **e-mail** and other **digital transactions** over the Internet

[Web Workers](#)

March 2022

Web Workers are primarily used for **CPU-intensive tasks** to be run in the background without any network connectivity required to work on the tasks

[Bazaar, AttainU - \(MERN Stack\)](#)

[GitHub](#) | [Video](#) | Apr 6, 2020