



Abhishek Verma

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<http://curlhash.in>



Education

Graduated from IIT Gandhinagar as a Chemical Engineer in 2016

Tech Skills

Proficient :

HTML
CSS
JavaScript
AngularJS

Average :

Python
PHP
Angular
NodeJS
Express
PhantomJS
NGINX

Tools

Gulp
Git
Flarum
Docker
Photoshop
Lightroom

Interests

Photography
Sketch
Canvas animations
Cricket
Explore public APIs

Work Experience

Senior Software Engineer at Testbook

April 2018 - Present

Managed core website which serves 3 million+ MAU along with a team of 6 members

Introduced Web Worker: Since JavaScript is single threaded it doesn't provide concurrency. The workaround which language provides is used to mimic concurrency but we found delays in minutes in some cases. To fix this Web Worker is used, which reduces the delays up to 5 seconds.

AMP pages: Dockerised NGINX server to serve dynamic AMP pages using PHP templates which increased the crawl rates by 50 times.

Migrated to Event-Driven Application Design: Developed modules that communicate with each other by broadcasting events that made our codebase scalable to support more than 100k DAU and fast development.

Online Classroom: Shipped a whole new product to production in two weeks. It allows a student to enroll himself in a course just like in MOOCs and consume the content in form of live videos, recorded videos, quizzes, notes etc. (Tech used: AngularJS, PHP, Rest APIs, NGINX, Docker)

Product development process: Contributed in shaping the product roadmap by providing the tech perspective.

Software Development Engineer at Testbook

July 2016 - April 2018

Worked in a team of 4 members on core and lms website

Topper's Video: Created a service which generates a video of student's test attempt using events stream which is used to generate topper's video. The size of 1 hr video turns out to be around 200 KB.

SSO as a microservice: Decoupled the onboarding flow so that it can be shared over intra-products such as website, blog and discuss

Server-side rendering: Created a PhantomJS service which runs weekly to generate the snapshot of every crawlable page and store it in the cloud. These snapshots is served to search engine bots to improve the SEO as the crawlers don't understand JavaScript fully.

Service Worker: Started using service worker as a caching layer. Used cache-first approach to fetch the stored resources.

OCRM: Designed & developed a product by learning Angular2. It is being used by 100s of merchants

Discussion Forum: Integrated an opensource forum named Flarum as our discussion platform (Discuss) and customized it by developing extensions. As Discuss is a different product with different tech stack, one extension is used to sync student's data over both the platform by using Pub/Sub. (Tech used: Mithrill, PHP, Laravel, Gulp, NGINX, MySQL)

Projects

Group

Pollufic: Devised a system that can remotely measure the level of carbon monoxide using a gas sensor and GSM module interfaced to a microcontroller (Arduino)

Fountain of youth: Developed a 3D adventurous game using three.js. It consists of a maze which has three checkpoints leading to three different levels. The difficulty increases as you go higher in the level

AICHe Quiz: Developed a quizing platform on Sails.js framework of NodeJS. I have used PostgreSQL as a DB and hosted it on Heroku. Around 500 students have participated in this quiz

NexClass: Designed and developed the backend of a timetable app which won Google Hackathon held at IIT Gandhinagar

Self

Created a chrome extension which saves the exact content along with the url. (Tech used: NodeJS, Express, MongoDB)

Developed a chrome extension which translates the selected word and it also gives the synonyms with examples. Did this by integrating a public API (Wordnik)