

A committed and motivated Software Engineer with nearly 5 years of experience in fullstack web development (frontend focus) majorly in ReactJs and .Net technologies. I have made an impactful contribution to the products that are scaled to millions of users.

## Technical Skills

- **FrontEnd:** JavaScript, Typescript | React.js, React Native | Hooks | Redux | Webpack | Jest, Cypress | HTML, CSS, SCSS, JQuery
- **Backend:** C#, .NET core, GraphQL, Nunit, Razor Views, MySql
- **Infra & Engineering Tools:** AWS (RDS, Cloudfront, Redis, Memcached, Kubernetes, S3), RabbitMq, Terraform, Git, Jenkins, Jira, Whimsical, Retool, Grafana, Newrelic, Sentry, Metabase, Scalyr etc.

## Education

### Bachelor of Technology

2014 - 2018

Electronics and Communication Engineering

Vellore Institute of Technology, Vellore, India

## Work Experience

### Software Development Engineer III

May 2018 - present

Cleartax ([cleartax.in](https://cleartax.in))

Bangalore, India

## Projects & Responsibilities

Started my career at Cleartax as a Software Intern in May 2018. Have been promoted to the higher roles thrice since then (Intern, SE1, SE2 and SE3). Some of the recent contributions are,

- **Declarative UI framework:** Designed and developed the framework from scratch for the product which has frequent UI modifications on the mobile app using React. It enables the team to declare end to end UI in JSON format stored on the server.
  - Complete control of the UI with the internal team as we could ship frequent UI changes without having to release app updates.
  - Improved the timelines for delivering the UI modifications by a great extent.
  - Smaller APK bundle size as the UI resides in the server instead of client app.
- **Web UI Rewrite of [Income tax product](#):** Took complete ownership of the engineering for rewriting the legacy UI in React.js. Wrote a POC code to reuse the existing “declarative UI

framework” and came up with the technical design, strategy and estimations. Mentored the team, worked under aggressive timelines and delivered on time.

- Rewrite was a success! Achieved super fast responsive UI and the user conversion improved both on mobile and desktop.
- It was a great milestone in monetizing the product for the first time and the company generated revenue of nearly INR 200M in the debut season.
- Incrementally rolled out the new UI using A/B testing methodology, successfully scaling to millions of users.
- **Tax Planning, new product:** Took complete ownership of the Frontend for developing a new product. Worked with the team of 4 frontend engineers to design, develop and release the web app.
  - Bias for action and aligned backend, product and design teams without any gaps.
  - App was developed on typescript using react framework with additional tools like ReduxJs/toolkit, react-router, react-pdf and in-house UI library.
- **Complex feature in the backend:** Migrated a big feature from .Net MVC to GraphQL .Net. Solved the complex design, decoupled a lot of code from the MVC layer, performed right modeling of graphql types and so on.
  - It enabled moving the feature from old to new UI, hence enhanced user experience.
  - Simplified and cleaned up a lot of code.
- **Infra Migration:** Migrated an app from AWS EC2 to Kubernetes. The task involved upgrading from .net framework to .net core, making the app platform agnostic, developing Dockerfile, creating jenkins pipelines and working closely with the devops team to get it deployed on Kubernetes.
  - Huge reduction in the AWS infra cost.
  - Deployment time reduced to 3 mins from 30 mins plus all the benefits of kubernetes.
- **Load Testing:** Took ownership of scaling activity during the season with minimal devops help. Performed load testing of the services using locust. Analyzed New Relic, AWS dashboards and pointed out critical bottlenecks in the system.
  - Performed optimization in .Net’s thread pool which significantly brought down the response times and improved the throughput.
  - Wrote terraform scripts to modify the resources on AWS and created jenkins pipelines whenever required without relying on the devops team.
  - Fixed all the breaking changes and upgraded graphql .Net library to the newer version and enabled query caching.
  - Fine tuned kubernetes deployments with right autoscaling configurations.
  - Achieved zero downtime with smooth and stable product during the peak load (up to 1500 RPS)
  - Right provisioning of resources saved a lot of AWS infra cost to the company :)
- **Testing Framework:** Developed a testing framework using xunit to test graphql queries and mutations. Have written innumerable test cases in both backend and frontend.
- **Dashboards using tools:** Created dashboards (Scalyr, Grafana, Chronograf, Sentry etc,), alerts (email/slack integrations) and monitored them during the peak traffic.
  - Capable of handling P0 issues, taking up ad hoc tasks and shipping fixes in war-room like situations.
- Run scrum calls and work with product and business teams in sprint planning and estimations. Work with the team in design / architectural problem solving and code reviews.