# Introduce yourself

In many companies, I have been a frontend developer and team leader.

Shoclefgold.com is my most proud project

I was the frontend team leader for this project.

The strage of the company is that develop the Ecommerce website using drop shopping.

This company uses the agile scrum framework for managing the projects.

Scrum is the framework that utilizes the four values and 12 principles of the agile methodology.

It helps the manage the process of the project development.

So the most of the developers are using that framework.

We get the requirements and idea from client and we made the documentation of infrastructure based on the ordered by priority.

In agile scrum, this step called products backlog event.

In product backlog step, we ordered by priority, this is the full list of view what is needed to be done to complete your project.

We separate the product backlog into sprints.

For this we have a meeting that called the sprint planning meeting for plan the sprint and in this meeting, we decided the release date of the project.

Following the split sprint, we have a meeting for getting our own use story and getting our own task.

We always made the sprint doesn’t over the full month and every ticket doesn’t over the one day.

So Every developer has their own task and they upload the ticket to ticket management system

We used the ClickUp for mange the ticket.

For version control system, we used the Github.

Each developer has their own branch and works on there and if they works done, push to the Github repository and send the pull request to main branch.

Our frontend team skill is React and Next.js and backend skill is Node.js and Nest.js

React is the SPA library for building the websites.

React implements the spa using the React Virtual dom.

Virtual dom is a lightweight Javascript representation of the dom used in declarative we frameworks such as React, Vue, etc.

React controls the dom with state and props.

This project is the ecommerce site so we used the next.js

Next.js is an open-source development framework that can develop SSR.

Next has two type of rendering such as ssr and csr.

The main difference between CSR and SSR is where the page is rendered.

SSR renders the page on the server side and CSR renders the page on the client side.

Client-side manages the routing dynamically without refreshing the page every time the client requests a different route.

As you know, In develop of the ecommerce site the SEO is very important.

Of course React can implement the SEO using React Helmet.

SEO helps the marketing of the site.

There are many factors that improve the SEO ranking such as High quality content, original, unique and Valuable content, up to date and fresh content and organization website loading speed, Keyword Optimization, Mobile Friendliness.

But in there factors, I paid attention to the website loading speed and mobile friendliness.

For improve the website loading speed, we need to optimize the bundling size and remove the API calling count, prefer svg than png.

And also I used the windowing, Higher order components, router splitting, etc in that project.

I tried to use the components that provide the Next.js for SEO such as IMG, Text, Link etc.

It is important to use the correct key.

So I made the functions that generate the meta data automatically to the products.

Of course the marketing expert provides the correct meta keys. And I saved it to the db according to the products.

Thus, this site has high ranking.

And next, For develop very easily and modern, we used the storybook framework.

According to the design, we made the story-book components each type, color, etc.

And we always tried to make the action page for user friendly using React-animation, Three.js, etc

And First we decided to make the whole page using tailwind css But we used the styled-components.

Of course tailwind css is very good css framework- it provides the smart components and clean code.

But it is a bit annoying to make the correct components according to the design and keep the pixel perfect.

We can customize the CSS classes of tailwind but anyway every developer don't like that uses the tailwind CSS.

And next, I made the site more convenient using the third-party API such as OneSignal, PayPal, stripe, Google Authentication, Twilio.

For mail service, I used the SendGrid service.

SendGrid is the Emil delivery service.

We can use that service very easily with the Twilio api.

I used the SendGrid service for subscribe the new products.

OneSignal is the push notification service.

So I used for notify the new mail.

And as you know In develop ecommerce, we must have the payment integration.

So we integrate the stripe and paypal.

In there I made the subscription for the products according the price.

And next, For develop very fast and clean, I implemented the CI/CD.

Continuous integration is a practice that encourages developers to integrate their code into a master branch of a shared repository.

This job is for devops but unfortunately, we have not devops during the develop the project because of sick.

So I worked in devops role too.

For implement the ci/cd, First i used the circle ci pipeline.

CircleCI is the continuous integration & delivery platform that helps the development teams to release code rapidly and automate the build, test, and deploy.

CircleCI can be configured to run very complex pipelines efficiently with caching, docker layer caching, resource classes and many more.

If the master branch merged from other branch after pass the review of the code, it automatically test, build, deploy to the server and notify to the teams.

For this, I used the AWS Ec2 instance and router 53 service.

In aws ec2, I bought new instance and installed nginx and nvm for deploy, and also installed the snap bot for https certificate.

And in nginx, I installed nginx reverse proxy for convert 3000 to 80.

There are many hosting services such as godaddy, router 53, etc.

But I used the router 53.

In Router53, I created the new domain and added the a record for DNS server.

And I made the circleci pipeline for ci/cd and add code to git repository.

After I heard we can use the Github action and Jenkins for ci/cd so I made the ci/cd pipeline using Github action.

We can use the several pipeline and actions such as Jenkins, Kubernate cluster and so on.

So I completed the project perfectly and the site works very well.

And also I have experiences in NFT marketplace and DAO.

The chanllenge of this project is that the optimize the cost for this project.

For this, we used the agile scrume for keep our deadline and while deploying the server, we used the s3.

As you know, for deploy the server, we have to deploy the frontend project.

In the server, it only works the html files.

we need the server for only html files.

So we thought, we can use the s3 and we can deploy it to aws s3.

So we made our own pipeline for deploy s3 and deploy to it.

Everything is done.

So we saved the cost in deploying.