

# NICOLAS CHANG

SENIOR FRONTEND DEVELOPER    📍 SAN MARINO, CA, 91108    ☎ 626 467 3807

## ◦ DETAILS ◦

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Date of birth  
1991 / 01 / 10

## ◦ LANGUAGES ◦

English  
Korean

## ◦ SKILLS ◦

TypeScript

JavaScript

React

Redux

Next

HTML / SCSS

Jest

Node

Express

Python

Laravel

Solidity

NFT

Web3.js

Git

Docker

JIRA

AWS

PostgreSQL

MongoDB

GraphQL

WebSocket

CI/CD & DevOps

## 👤 PROFILE

A **Senior frontend developer** who has been working as a professional web developer for more than 8 years, most proficient at frontend development.

Always produced and built **optimized, user friendly** web pages with great performance and rich user experience using **React, Next, Angular and Typescript**.

Also I have built **NFT**(minting & staking) smart contract with gas optimization using **Solidity, ERC721, ERC721a, ERC1155, Web3.js**.

From time to time got involved in full stack developer roles and once was in responsible of some kind of **leadership** as well.

Using **MERN** stack, I have done some kind of small projects totally by myself.

That surely improved my backend and full-stack development skills and experience.

My backend and full stack development skills would be **Javascript, Typescript, Node, GraphQL, MongoDB, MySQL, PHP** and **PHP frameworks** like **Laravel** or **CI**.

However, my main work is still focused on **frontend** development particularly using **React.js, TypeScript, JavaScript, Next.js**.

In conclusion, my strongest skills are **Javascript / Typescript / React / Node / GraphQL / AWS / Solidity / Web3.js**.

## 🎓 EDUCATION

**Bachelor, Hanyang University, Seoul, South Korea**  
2009 — 2013

## 📁 EMPLOYMENT HISTORY

**Lead Frontend Developer at Factoryfour, San Marino, CA**  
January 2018 — October 2022

- Developed new **user-facing features** using **React.js**
- Developed **Wulfz**(ERC721) and **TribeX NFT**(ERC721a) smart contract and did web3 integration with **React.js** & **Next.js** frontend.
- Developed **Takaprotocol GraphQL subgraph** similar with uniswap v3 subgraph using **Typescript** & **GraphQL**.
- Built **reusable components** and **front-end libraries** for future use using **React.js** & **Typescript** & **Angular**
- **Optimized components** for **maximum performance** across a vast array of **web-capable devices** and **browsers** using custom hooks.
- Worked together with an engineering team, a designer & a project manager to achieve the **goals of the application** **Estimated tasks** using **Git, Jira, Trello**.
- Provided **help** and **guidance** to other engineers on the project as **lead developer**.
- **Improved** loading & fetch speed(12%) using **AWS Lambda, S3, CloudFront, Route53, EC2**

**Frontend Developer at TopicPro, Chicago**  
November 2015 — December 2017

- Built and implemented the **user interface systems** of websites, software programs, and web-based applications using **React.js, GraphQL, Node.js, Docker**.
- Provided a satisfactory **user experience** with no issues, errors, or downtime.
- Created and Optimized systems, played an **active role** in testing and troubleshooting, and resolved issues such as those related to **accessibility** and **browser compatibility**.
- Often **served** as an intermediary bridging the **gap** between the user and the backend developers, and tweak tools and platforms to adapt to real-world use situations

- Reviewed and debugged code using JS test libraries and frameworks such as **Jest**, **Chai**.
- Developed **fully functional web applications** that align with business objectives.
- Followed the **best practices** in developments and **improved** them using **React.js**, **Node.js**, **Laravel**, **MongoDB**.
- Created high resolution **mockups** to **test interfaces** with users.

## Frontend / Full Stack Developer at KR Soft, Highland, CA

May 2013 — October 2015

- Used **React**, **NodeJS**, **MongoDB** and **MySQL** to implement employee administration **CRUD** operations.
- Launched 10+ projects successfully using **React**, **HTML**, **CSS**, **Javascript**, **NodeJS** and **AJAX**.
- Strong design and coding skills in **Typescript/Javascript**.
- Utilized **Node.js** Passport **authentication** strategies for encrypted **JSON Web Token** request allowing for stateless user **identification** and eliminating the need for additional **database** queries.
- **Reduced API call/Data consuming rate** and **potential bug rate** by 60%, by building **optimized** data fetching/process/consuming pipeline (**GraphQL**, **Reselect**, **Redux**, **React memo hooks**, **React lifecycles**).
- Ensured **responsiveness** of applications using **bootstrap** layout, **CSS**, **SCSS**.
- Saw through a project from **conception** to **finished** product.
- Designed and developed Restful **APIs** using **Express**, **Laravel**.

## ★ TYPICAL PROJECT

<https://bondlingo.tv>

BondLingo is an online platform that offers more than 500 lecture videos and hundreds of JLPT problems to assist people to learn Japanese. It also provides features for users to feel free to create their own problem sets or movies. The client requested us to establish a platform where people can acquire the Japanese language. The integrated Mobile App needs to enhance creativity and make teachers gain self-confidence in creating and distributing every lesson plan. To suit the client's requirements, our team of 9 developers built a web-based solution and mobile app utilizing some technologies such as NodeJS, WordPress, and ReactJS. I took part in this project as a React JS developer.

### TECHNOLOGY STACK:

Node.js, React.js, HTML / SCSS, Typescript, Jest

<https://apkpure.com/lolly-chat-with-idols-old/com.myfans>

Lolly Idol Chat app connects teenagers with their favorite youth celebrity and enables 1 on 1 chat. Interactive portal for social media influences and their fans. Fans can send virtual gifts, chat and exchange snap moments with their favorite Instagram idols. There is a leader-board to show who is your most popular idols and your top fans. Accumulate enough virtual gifts to redeem for cash. I was in response to developing software solutions by studying information needs, conferring with users, studying and designing systems flow, data usage and etc.

I made the documents and demonstrated solutions by developing documentation, flowcharts, layouts, diagrams, code comments, and clear code.

Sometimes, I had to update my job by studying programming techniques and computing equipment, participating in educational opportunities, reading professional publications and etc. Our team developed the following features based on customer requests:

"The user gets updated with their favorite idols and influences.

User can show their appreciation by sending virtual gifts.

Grow fan base, keep the followers engaged by showing interesting offers"

### TECHNOLOGY STACK:

React-Native, PHP, JQuery, MongoDB, Redis, AWS EC2, S3, Lambda