DENG-FA, YANG (Dylan)

Sr. Frontend Engineer

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SUMMARY

A software engineer with extensive **Web Development** experience and years of experience using **React**, **Redux**, and **Typescript**. Familiar with **Web Performance Optimization** and using **WebSocket** for high-frequency updated sites to get **GraphQL** data. Have experience using **Docker**, **PostgreSQL**, **GitHub actions CI/CD**, **AWS**, **Web3 Blockchain**, and maintaining **SDK** on **NPM**. I am a **team player** seeking an opportunity to collaborate with you and utilize my **strong self-motivation** and **adventurous spirit** to create high-quality, scalable, and maintainable products.

TECHNICAL SKILLS

React	Git/GitFlow	ExpressJS	EthersJS/Web3JS
Redux	CI/CD	RESTful API	HTML5/CSS3
Typescript	Webpack	GraphQL	OOP/SOLID
NodeJS	Docker	PostgreSQL	Agile/Scrum
Jest	AWS	MongoDB	Web Development

EXPERIENCE

Perpetual Protocol, Taiwan - **Sr. Software Engineer** 10/2020 - present

- Created and maintained a number of **Web3 websites**, including a **Decentralized Exchange** (PERP), using technologies such as **React**, **RTK**, **GraphQL**, **Typescript**, **BigJS**, and **EthersJS**. Utilized **GitHub actions CI/CD** to enhance development efficiency.
- Designed, implemented, and maintained **open-source SDK** for interacting with contracts on various blockchains, primarily using **Typescript**.
- Applied an aggregation strategy to significantly reduce the volume of web RPC calls by approximately **70%** with the **Multicall** (a contract call aggregator), leading to enhanced performance and faster **First Contentful Paint** (FCP) times.
- Launched a data sets verification script using **Merkle Tree** (a binary hash tree data structure) and **Yargs** (interactive NodeJS CLI builder) and implemented a client-side UI interface to generate **Merkle Proof** to claim user's rewards.
- Collaborated on designing and implementing **analysis scripts** to simulate and confirm the **security issues** of the system's accounting balance and bad debt situation.

Codegiant, Taiwan & San Francisco - **Sr. Software Engineer** 6/2019 - 4/2020

- Led a database migration and data cleaning from **SQLite** and **MongoDB** to **PostgreSQL** using **Jupyter Notebook**, resolving challenges such as data fragmentation and redesigning flattened schema. Enhanced migration efficiency from **20** hours to **2** hours by utilizing data chunking and a distributed approach with **Docker**. Launched the new system within **3** months, including introducing a query-builder library **KnexJS,** and redesigned APIs.

- Optimized database search performance by implementing **data-flattening** and **data-indexing** techniques on **PostgreSQL**.
- Integrated a **boolean search** functionality into the application using **PostgreSQL**, **NodeJS**, and the **boolean-parser** library.
- Upgraded a version control system from **Ruby on Rails** 5.2 to 6.0, troubleshooting and resolving any issues during the process.
- Improved maintainability, performance, and simplicity of the system by refactoring an existing Golang-based middleware with Ruby on Rails, using the **threaded modal Puma** as the server in place of the **pre-forking server Unicorn**, and reduced git repository size by **BFG repo-cleaner**.
- Implemented a **GraphQL**-based API to replace an existing **RESTful API**, improving flexibility and performance by allowing our client-side **React** app to request only the data they need.

CatchPlay, Taiwan - **Frontend Engineer**   6/2018 - 6/2019

- Collaborated with design and backend team to develop TV series features, focusing on front-end development tasks such as keyword search and layout design using **React/Redux**.
- Collaborated with data analysts to track and perform **A/B testing** using the **Google Tag Manager (GTM)**, gathering and analyzing data to optimize the user experience.
- Implemented integration of ECPay, LinePay (top local payment system), and other **payment solutions** in Taiwan, Singapore, and Indonesia, increasing customer payment options and improving the overall user experience.
- Refactored payment page using **React/Redux** to reduce API calls by approximately **40** in page initializing and **15** when switching payment methods, improving performance and reducing server load.

Fun.Crea.Free, Taiwan - **Co-Founder**   3/2016 - 5/2018

- Managed all aspects of a web engineering business, including **business development**, **client communication**, **project management**, and technical execution, and consistently delivered high-quality solutions on schedule.
- Successfully launched **10+** projects, including overseeing all aspects of the development process from conception to launch. Using **Sketch**, **React**, **Javascript**, **NodeJS**, **pm2**, **Ubuntu**, **Nginx**, **MongoDB**, and **AWS**.

EDUCATION

2009 - 2013
Fu Jen University | Bachelor's Degree in Computer Science and Information Engineering

LANGUAGES

Chinese (Mandarin): Native

English: Professional working proficiency