

Yang Yu Cheng

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Summary

I am an experienced software programmer from Taiwan with six years of experience, a functional programming junkie. I embrace a cross-cultural work environment, and empower others through front-end tools and communication problem-solving. I have expert experience delivering MVP solutions, refactoring large existing web properties, small interactive features, large design systems, and creatively composing components to deliver full-stack solutions for long-term user and business benefits.

Skills

- Development language: JavaScript, HTML, CSS, TypeScript, PHP, Java
- Frameworks:
 - Frontend: React, React Native, AG Grid, Highcharts, Lit, ProseMirror, MUI, MobX, Redux, Redux Saga, RxJS, Ramda, GraphQL, styled-components, Web Components
 - End-to-End: Puppeteer
 - Backend: Next.js(express), Deno, Gatsby.js, strapi, Java Spring boot, PHP laravel
- Development tools: Storybook, Webpack, Lerna (Monorepo), Github/Gitlab CI/CD, Jenkins, sonarcloud
- Database: MongoDB, MySQL, PostgreSQL, Realm
- Operating Systems: Linux, MacOS
- Communication tools: Assna, Bugzilla, ClickUp, JIRA, Slack
- Infrastructure: GCP, EC2, Docker

Experience

Privé Technologies – Award-winning end-to-end digital transformation solutions for wealth management
SOFTWARE DEVELOPER, FRONT-END SPECIALTY

Taipei, Taiwan
Jul. 2020 – Present

Technical Environment: React, React Native, TypeScript, Web Components, AG Grid, Highcharts, Lit, MUI, MobX, Redux, RXJS, Ramda, Puppeteer, Webpack, Lerna (Monorepo), Github CI/CD, Docker, Jenkins, Node.js, Deno, MongoDB, MySQL, Firebase, EC2, GCP, lambda, Shell, Linux, Java Spring boot

Projects:

- Wealth management application (React): A B2B app for bank financial experts to create a portfolio for their clients.
- Financial advisor chatbot (React Native): A B2B app for bank financial experts to show clients the details of a portfolio.
- CRM Client management system (React): A B2B app for the onboard process for the bank.
- Internal tools: PDF generator (Puppeteer), Config Management (Github OAuth App), FormMaker (React).

Duties:

- Architecture:
 - I developed a monorepo structure with Lerna to manage our massive codebase in a modularized way; it crosses 50 projects with 1,000 components. Modularizing reduced our file bundle size by 20%.
 - I developed a bridge layer to integrate the Java server-side-render engine with React base Web components. It not only adopted our existing React components by using native web APIs but also gave us the flexibility to break down the framework limitations.
 - I developed a Privé UI library ecosystem for team members to make reusable components and display them in a storybook. This assures the test case is covered when we make a new component.
- CI/CD:
 - I reduced the front-end bundle build time from 1 hour to 15 minutes, and refactored our codebase structure instead of building every single project. I used a monorepo concept by Lerna to bundle it in one location, and further improved it by rebuilding only the changed module.
 - I built a workflow process to pre-check the code quality/testing on every PR and commit through Github action and husky hook.
 - I developed a workflow that integrates with Slack to send a test coverage report message to the channel on every PR. This gives a better picture of whether the test coverage rate has improved.
- Product features:
 - I built a React Native chatbot app as a financial advisor for our clients. The conversation phrases were trained by DialogFlow.
 - I created a PriveFormMaker library to generate complex forms in a simple schema for common usage across all Privé products.
 - I developed a PDF generator by using Deno with Puppeteer to replace our legacy heavy Birt library. This saved the company 10,000 USD per month on their commercial license.
 - I developed an internal configuration management system to manage our development flow in ten different environments; it can switch product functions between more than one hundred tenants.
 - I contributed to the development of a wealth management product and a CRM client management system for the bank's finance advisor to address complicated workflows for our clients.

- Team culture:
 - I am a firefighter for our team and solve difficult incident bugs. I do new tech stack surveys and make technical decisions. I frequently share my knowledge with my team members in a regular session meeting.
 - I work closely with my boss to improve the onboarding process and build an effective mentor system where newcomers can begin to play an active role within a week.

QNAP Systems, Inc. – Leading NAS Provider. All-in-one storage solution : File Storage, Backup, etc
SW5, SOFTWARE DEVELOPER, FRONT-END SPECIALTY

Taipei, Taiwan
Dec. 2016 – Jun. 2020

Technical Environment: React, ProseMirror, Redux, Redux Saga, RxJS, Webpack, Ramda, Styled-components, Node.js, PHP laravel, MySQL, GitLab CI/CD, Docker

Projects:

- NotesStation3: A real-time collaborative notes app (<https://www.qnap.com/solution/notes-station3/en/>).
- Notes Station 3 Clipper: A chrome extension, it clips web pages you want to keep, and saves them in Notes Station 3.
- QFinder Chrome extension: A tool to find the NAS in your network.

Duties:

- I developed customized plugins and the collaborative feature of Editor core (ProseMirror).
- I developed a socket daemon (node.js) for real-time collaboration, and used Rx.js as a stream logic control library to integrate with collaborative transactions.
- I dockerized the NS3 application to an APK-like install package for the NAS system.
- I analyzed and developed a chrome extension to detect NAS network protocol.

Personal Projects

UIUX Cafe. – Solution provider for WebSite, App, UI/UX
REACT NATIVE DEVELOPER

Taipei, Taiwan
May 2018 – Present

Technical Environment: React, React Native, Gatsby.js, GraphQL, SEO

Projects:

- UPower: An app to find a charging station to charge electric cars in Taiwan.
(<https://apps.apple.com/tw/app/u-power/id1612379206>)
- USpace: An app to find a parking space in Taipei, Tokyo, and Taichung.
(<https://apps.apple.com/tw/app/ospace/id1454077921>)
- ULOCK: An app for USpace smart lock admin to manage their locks.
(<https://apps.apple.com/tw/app/ulock/id1453949429>)
- iBobby+: An app to integrate with a Chunghwa Telecom smart speaker.
(<https://apps.apple.com/tw/app/i%E5%AF%B6%E8%B2%9D/id1457818636>)

Duties:

- I was in charge of establishing React Native project's infrastructure (including Navigation, API integration, Firebase, Fastlane, DB, State Management, Folder structure, Style define, Lint) to build a solid foundation for the software.
- I forked react-native-paper as a main UI core library for cross-project usage.
- I developed a workflow to testflight, archive apps, and upload to stores.
- I developed many UI layouts and page navigation flows, and integrated them with APIs.
- I used lottie as an animation library to make a smooth user experience.

Education

National Taichung University of Science and Technology
MASTER OF ENGINEERING IN MULTIMEDIA DESIGN

Taichung, TW
Sep. 2014 – Aug. 2016

National Kaohsiung University of Science and Technology
BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Kaohsiung, TW
Sep. 2010 – Jun. 2014

Languages

Mandarin (native)
English (fluent)

Interests

Dancing (Salsa), scuba diving, climbing, playing basketball, and learning new languages (Japanese)