

# CHENG-YOU BAI

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## WORK EXPERIENCE

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### Autify, Inc., Tokyo, Japan

08/2021 – Present

(Test Automation Platform) Senior Front-End Engineer

- Improved 50% team productivity by refactoring data structure for our model
- Improved 10% speed for loading scripts by caching them in runtime
- Improved 10% of performance score by utilizing webpack code splitting properly
- Reduced 15% bundle size for bundled scripts
- Introduced Core Web Vitals with DataDog RUM
- Introduced lighthouse-ci and webpack-bundle-analyzer to track performance scores and bundle size
- Introduced graphql-codegen to the team for TypeScript types auto-generation

### HERP, Inc., Tokyo, Japan

02/2019 – 06/2021

(Hiring Management Platform) Software Engineer

- Introduced lighthouse-ci and webpack-bundle-analyzer to track performance scores and bundle size
- Introduced renovate.js to help the team upgrade dependencies easier
- Fixed dependency vulnerabilities by upgrading packages or sending PRs to OSS
- Reduced 80% build time by migrating Rollup.js to Webpack 4
- Reduced 3s when opening a modal by avoiding running duplicated codes
- Implemented back-end features in Haskell through Domain Driven Development
- Implemented a service of microservice and APIs to Task Management with Haskell and Amazon SQS

### Rakuten Taiwan Inc., Taipei, Taiwan

06/2016 – 01/2019

(E-Commerce) Front-End Engineer

- Led other teammates to migrate AngularJS to React for Shipping and MyOrder pages
- Reduced 60% build time by replacing the SASS build tool
- Improved lighthouse score by 50% through reducing the JS bundle size
- Reduced 50% file size by removing unused CSS
- Prevented 90% brute force web scraping tools buying on-sale items with Google reCaptcha
- Fixed unexpected broken layout by introducing snapshot testing
- Collaborated with Tokyo team members for project handover

## OSS EXPERIENCE

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### WebKit

04/2023 – Present

- Fixed to calculate 'x' CSS unit as resolution in calc combination(#15229)
- Improved error message for invalid selectors(#13880)
- Fixed to always respect Content-Type from headers instead of caching it(#12376)

### The Servo Project

07/2017 – Present

- Invited as Technical Steering Committee member
- Wrote a blog series to guide more folks into the OSS contribution world with Servo
- Helped to fix nightly wpt sync breakage(#27631)
- Implemented dynamic module(#27026)
- Fixed an old issue that Servo can't load Twitter(#26789)
- Implemented module script(#23545)
- Made URLSearchParams implementation up-to-date
- Implemented rejectionhandled event(#22149)
- Implemented unhandledrejection event(#20755)

### Rust Taiwan Community

06/2018 – Present

- Helped to review translation for Traditional Chinese version of The Rust Book
- Helped to translate annual survey for the Rust Taiwan Community

## SKILLS

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- **Programming Language: multilingual** (not limited to any specific language), especially experienced in JavaScript TypeScript, comfortable with Haskell Rust PureScript (in random order).

## PRESENTER OF TALKS

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- Introduction to Property-Based Testing @ COSCUP 2022(Slides)
- The Hitchhiker's Guide to Servo Contributor @ Rust Tokyo(Slides)
- Introduction to Algebraic Data Types @ Autify
- Introduction to Pattern Matching @ Autify
- Expression Problem @ Autify
- Introduction to Type Class @ PureScript.tw Meetup(Slides)
- Pattern Matching & Algebraic Data Types @ PureScript.tw Meetup(Slides)
- PureScript By Example CH1 - CH4 @ PureScript.tw Meetup(Slides)
- Vue.js: Introduction @ Rakuten Taiwan
- ESLint: Pluggable JavaScript Linter @ Rakuten Taiwan
- Promise: Let's escape from Callback Hell with Promise @ Rakuten Taiwan

## EDUCATION

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**Yuan-Ze University**, Taiwan

09/2010 – 01/2015

Bachelor: Computer Science