

Wenqi He

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Experience

Frontend Software Engineer, Gllue Software, Shanghai 2020/11 – 2021/11

- λ Developed main features of multiple web applications and WeChat mini-programs using TypeScript and React.
- λ Participated in the maintenance of the company's XML-based user interface builder.
- λ Developed a light-weight form engine and image generation service (Node.js) for mini-programs.
- λ Responsible for the front-end integration of the company's identity service, using OAuth 2.0 in certain scenarios.
- λ Used Redux Saga, SWR, ECharts, Linaria, Sass/LESS, Tailwind, Vite/webpack/Rollup/Parcel, GitLab, ArgoCD.

Electron Developer, Étude (etudereader.com), Atlanta 2019/09 – 2020/03

- λ Built features such as parsing table of contents from raw text, persistent word highlighting, etc.

Part-time Web Developer, Georgia Institute of Technology, Atlanta 2019/08 – 2019/12

- λ Participated in the development of the mid-term survey system. Implemented the JSON form feature.
- λ Mainly used MongoDB, ajv, TypeScript, Angular, Express, Node.js, Puppeteer.

Front-end Developer Intern, PegasusCRM, Atlanta 2018/01 – 2018/04

- λ Mainly used Laravel, jQuery, Sass/LESS, Vue. Developed a PDF-generation service (Node.js) based on Puppeteer.

Education

B.S. Computer Science, Georgia Institute of Technology, Atlanta 2015/08 – 2019/12

- λ Cumulative GPA: 3.97/4.0, Major GPA: 4.0/4.0. Minor in Physics ([//galmungral.github.io](https://galmungral.github.io))

github.com/GalMunGral

/telescope: (C) A SOCKS-based Split Proxy (Anti-Censorship Tool) 2021/04

/turing-machine: (Haskell) Implementation of UTM based on Turing's Paper 2021/12

/hanbun-lang: (PureScript) An Object-Oriented, Stack-Based Esoteric Programming Language 2021/05

- λ Demo: [//galmungral.github.io/hanbun-lang](https://galmungral.github.io/hanbun-lang)

/replay: (TypeScript/JavaScript) Front-end Framework and Build Tool 2020/05 – 2020/06

- λ Features include a DSL (requires Babel), in-place diffing, non-blocking rendering, hydration and dependency tracking.
- λ Provides a ESM-mode dev server and webpack-style bundling with code-splitting and support for dynamic imports.

/react-teletype (TypeScript) React Renderer Shared across Tabs 2021/05

- λ Designed for running apps in shared worker to avoid unnecessary initialization for each new tab.

/colosseum: (TypeScript) HTML5 Encrypted Streaming Media Player 2021/10

- λ Built on the Media Source API, DASH protocol and CryptoJS. Protects video from being downloaded.

/layout-sandbox: (TypeScript) WYSIWYG Drag-and-Drop Layout Builder 2021/11

/web-repl: (JavaScript) Web-based Python REPL and Chat Room 2018/05

For more, visit GitHub:

- λ **/preludes:** *Experiments related to formal languages, network protocols and front-end frameworks.*
- λ **/etudes:** *Includes full-stack web, mobile (native), desktop (Electron) applications.*
- λ **/bagatelles:** *Includes webpack plugins for generating atomic CSS, detecting unused files, analyzing coupling, etc.*