Wenqi He

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Experience

Front-end Engineer, Gllue Software, Shanghai 2020/11 – 2021/11

- λ Built main features of multiple products with TypeScript and React (and Taro for WeChat Mini Programs).
- λ Responsible for the front-end integration of the company's identity service, used OAuth 2.0 in certain scenarios.
- λ Participated in the maintenance of the XML editing/rendering engine (part of the company's front-end framework).
- λ Responsible for developing a light-weight form engine and a Node.js image generation service.
- λ Used Redux Saga, SWR, ECharts, Linaria, Sass/LESS, Tailwind CSS, Vite/webpack/Rollup/Parcel, GitLab, ArgoCD

Front-end (Electron) Engineer, Étude (`etudereader.com`), Atlanta 2019/09 – 2020/03

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

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

- λ Lead the development of the mid-term survey's form builder feature. Integrated the school's CAS login service.
- λ Mainly used MongoDB, ajv, TypeScript, Angular, Express, Node.js, Puppeteer.

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

- λ Mainly used Laravel, jQuery, Sass/LESS, Vue. Developed a PDF-generation service 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 (`https://galmungral.github.io`)

github.com/GalMunGral

/telescope: (C, Python) A SOCKS-based Split Proxy 2021/11, 2021/04

- λ A minimalistic anti-censorship tool for bypassing GFW in China, inspired by Shadowsocks.

/hanbun-lang: (TypeScript) An Esoteric High-Level Assembly for UI Programming 2021/05

- λ Designed an object-oriented, stack-based VM and its high-level assembly in the form of Classical Chinese.
- λ Implemented the interpreter in a functional style (parser combinator, freer monad, etc).

/replay: (TypeScript/JavaScript) Home-made Front-end Framework and Build Tool 2020/05 – 2020/09

- λ Implemented a DSL (with Babel), in-place diffing, non-blocking rendering, hydration and dependency tracking.
- λ Implemented ESM mode (with caching and live-reload) and bundling (with code-splitting and dynamic imports).

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

- λ Manipulates DOM from a shared worker through messages to avoid repeated execution of initialization code.

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

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

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

/synk: (TypeScript) A Front-end Framework That Disallows Asynchrony 2021/04

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