

Experience

Frontend Engineer, Gllue Software, Shanghai, China 2020/11 - 2022/03

- + Developed Web applications and WeChat mini-programs using React and TypeScript.
- + Designed and developed a view layout system on canvas to support in-app screenshots.
- + Developed features for a UI builder framework, a JSON form engine, and an image-rendering service.
- + Built a light-weight HTML5 encrypted video streaming player to prevent downloads.
- + Participated in the development and integration of an OAuth 2.0 identity service.
- + Maintained online documentations using TypeDoc, GitLab, Docker and ArgoCD.

Electron Developer, Étude, Atlanta, GA 2019/09 - 2020/03

- + Built features such as table of contents parser, persistent word highlighting, etc.

Web Developer, Georgia Institute of Technology, Atlanta, GA 2019/08 - 2019/12

- + Participated in the development of the MEAN-stack mid-term survey application.

Education

University of Illinois Urbana-Champaign, Champaign, IL 2022/08 - Present
M.C.S. in Computer Science

Georgia Institute of Technology, Atlanta, GA 2015/08 - 2019/12
B.S. in Computer Science, Minor in Physics, GPA: 3.97/4.0

Projects: [//github.com/GalMunGral](https://github.com/GalMunGral)

/telescope: SOCKS-based Split Proxy [C, Python] 2021/04

- + A stable anti-censorship tool for bypassing the Great Firewall, implemented using libuv.

/michelangelo: Web UI without DOM and CSSOM [TypeScript] 2022/05

- + A low-level UI framework that implements layout, drawing and event handling on canvas.
- + [//galmungral.github.io/michelangelo](https://galmungral.github.io/michelangelo)

/replay: Front-end Framework and Bundler [TypeScript, JavaScript] 2020/05

- + React-like framework with in-place diffing, non-blocking rendering, hydration and dependency tracking.
- + Webpack-style bundler with support for dynamic imports, code splitting and ESM-mode dev server.

/react-teletype Interprocess React Renderer [TypeScript] 2021/05

- + React renderer for running apps on the server side or in a shared worker to skip reinitialization.

/hanbun-lang: An Esoteric Programming Language [PureScript, TypeScript] 2021/05

- + An object-oriented stack-based language, with syntax based on Classical Chinese.
- + [//galmungral.github.io/hanbun-lang](https://galmungral.github.io/hanbun-lang)

/sketchpad: A Simple Compiler for a High-Level Language [JavaScript] 2022/04

- + A language with Lisp syntax, C-like semantics and a compiler for a hypothetical architecture.
- + [//galmungral.github.io/sketchpad](https://galmungral.github.io/sketchpad)

/turing-machine: Implementation of Turing's Universal Machine [Haskell, Common Lisp] 2021/12