Wenqi He (何文琦)

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Give me a framebuffer, and I shall make any UI imaginable.

- A GPU-accelerated 2D vector graphics renderer (TypeScript, WebGL) `/polyrender`
- A basic raster map tile renderer (TypeScript) `/mercator`
- A stack-oriented esoteric programming language (PureScript) `/hanbun-lang`
- A basic canvas-based UI framework (TypeScript) `/michelangelo`
- A server-side interactive React renderer (TypeScript) `/react-teletype`
- A VDOM-based front-end framework with a module bundler (TypeScript) `/replay`

Experience

National Center for Supercomputing Applications, Urbana, IL, US
Graduate Research Assistant, Visual Analytics 08/2022 - Present

- Developed software for researchers, focusing on biomedical and geospatial data visualization.
- Created interactive cartographic visualizations using OpenLayers and GeoJSON.
- Participated in the maintenance of PhyloDiver, a visualization tool for tumor phylogenies.

Gllue Software, Shanghai, China
Front-end Software Engineer, Applicant Tracking System (ATS) 11/2020 - 11/2021

- Collaborated with multiple teams to build web applications, WeChat mini-programs and libraries.
- Participated in the maintenance of the user interface builder that powers the customizable ATS.
- Responsible for the front-end integration of a new Single Sign-On system for multiple products.

Étude LLC, Atlanta, GA, US
Software Engineer, Founding Team 08/2019 - 08/2020

- Developed several features of an NLP-powered PDF reader, including a table of contents parser.

Education

University of Illinois Urbana-Champaign, Urbana–Champaign, IL, US 08/2022 - 12/2023
Master of Computer Science GPA: 4.0/4.0

- Compiler Construction (LLVM), Programming Languages and Compilers (OCaml)
- Interactive Computer Graphics (WebGL), Scientific Visualization, Computational Photography
- Distributed Systems/Algorithms, Information Retrieval, Natural Language Processing

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

- Differential Geometry, Differential Equations, Numerical Analysis, Computer Simulation