# Wenqi He

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### **Education**

### University of Illinois Urbana-Champaign

Master of Computer Science Dec. 2023 (Expected)

### Georgia Institute of Technology

B.S. in Computer Science, summa cum laude Minor in Physics Dec. 2019

# **Personal Projects**

A GPU-accelerated 2D vector graphics renderer A raster map tile renderer A stack-oriented esoteric programming language A canvas-based UI framework A server-side interactive React renderer A front-end framework and a module bundler

## Coursework

# **Graphics & Physics**

Interactive Computer Graphics
Scientific Visualization
Computational Photography
Parallel Programming
Quantum Mechanics
General Relativity (Graduate-level)
Differential Geometry
Partial Differential Equations
Ordinary Differential Equations
Numerical Analysis
Computer Simulation

### Language & Communication

Optimizing Compiler Construction Programming Languages Natural Language Processing Information Retrieval Distributed Algorithms Distributed Systems Computer Networking Database Systems Information Security

# **Experience**

### **National Center for Supercomputing Applications**

Graduate Research Assistant, Visual Analytics Aug. 2022 - Present / Urbana, IL, US

- Developed software for scientific researchers, with a focus on biomedical and geospatial data visualization.
- Responsible for the development and deployment of the BiteMap project.
- Created interactive cartographic visualizations using OpenLayers and GeoJSON.
- Participated in the maintenance of PhyloDiver, a visualization tool for tumor phylogenies.

#### Gllue Software

Front-end Engineer, Applicant Tracking System Nov. 2020 - Nov. 2021 / Shanghai, China

- 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

Software Engineer, Founding Team Aug. 2019 - Aug. 2020 / Atlanta, GA, US

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

### Skills

### Languages

C, C++, Java, TypeScript, JavaScript, WebGL, HTML, SVG, CSS, Sass, LESS, PHP, Python, MATLAB, Mathematica, Haskell, PureScript, OCaml, Swift, Rust, Go, WebAssembly

### Frameworks & Libraries

React, Angular, Node.js, Next.js, Electron, RxJS, Redux, MobX, ECharts, NumPy, SciPy, Matplotlib, PyTorch, OpenCV, PyVista, SwiftUI, UIKit, AppKit, Core Graphics

#### **Tools**

Visual Studio Code, Vim, Git, Make, LLVM, Emscripten, esbuild, Babel, Tailwind CSS, Rollup, webpack, Parcel, Vite, Jest, Cypress, ESLint, Prettier, TypeDoc, GitHub Actions, GitLab CI, Docker, watchtower