

何文琦

hewenqi96@gmail.com
linkedin.com/in/galmungral
github.com/galmungral

EDUCATION

University of Illinois Urbana-Champaign

计算机科学硕士
Dec. 2023 • Urbana, IL, US

Georgia Institute of Technology

计算机科学理学学士, 辅修物理学
Dec. 2019 • Atlanta, GA, US

PROJECTS

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

COURSEWORK

Graphics / Physics

Interactive Computer Graphics
Computational Photography
Scientific Visualization
Numerical Analysis
Classical Differential Geometry
Partial Differential Equations
Ordinary Differential Equations
Parallel Programming
General Relativity
Quantum Mechanics
Computer Simulation

Languages / Communication

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

EXPERIENCE

美国国家超级计算机应用中心 (NCSA)

科研软件工程师/科研助理, 可视化分析组, 视觉部门
Aug. 2022 - Present • Urbana, IL, US

- 为多个国立卫生研究院 (NIH) 资助的科研项目开发应用, 主要负责生物学及地理空间数据的可视化.
- 使用 OpenLayers, GeoJSON 与人口普查局数据制作了伊利诺伊州蝗虫数据的交互式地图可视化.
- 负责 INHS-MEL 实验室 BiteMap 蝗虫数据众包项目 web 应用的全栈开发与部署.
- 参与了癌症演化树可视化分析工具 PhyloDiver 前端应用的维护与开发.

谷露软件

前端工程师, 申请人跟踪系统 (ATS)
Nov. 2020 - Nov. 2021 • Shanghai, China

- 在多个项目团队内开发了多个 web 应用、微信小程序、前端库和后端渲染服务.
- 参与了高度可定制的 ATS 系统底层的拖拽式图形用户界面生成器的维护与开发.
- 负责公司首个单点登录系统 (SSO) 的前端界面和多个项目前端登陆流程的整合.

Étude LLC

软件工程师, 创始团队
Aug. 2019 - Aug. 2020 • Atlanta, GA, US

- 负责开发智能 PDF 阅读器的图书目次解析器 (准确率 >85%) 和滑词高亮等多个主要功能.

SKILLS

Languages

C, C++, TypeScript, JavaScript, GLSL, HTML, SVG, CSS, Sass, LESS, PHP, Bash, Zsh, Python, Java, SQL, MATLAB, Haskell, OCaml, Common Lisp, Swift, Rust, WebAssembly

Frameworks / Libraries

React, Angular, Node.js, Electron, Next.js, Redux, MobX, ECharts, NumPy, SciPy, PyTorch, OpenCV, SwiftUI, UIKit

Development Tools

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