Zhihao **WU**

(720) 485-1407
woozhh@gmail.com

Portfolio https://zhihaowu.com

Technical Skills

Frontend	HTML/CSS/JavaScript, with variations such as Jinja, SCSS, PostCSS, Typescript, React, Angular, Vue.js
Backend	C++, PHP, Python, Node.js, WebSocket, MySQL, Google Cloud Datastore, WordPress, Django
Static site generators	Grow, Eleventy, Hugo, Jekyll, Next.js, Gatsby
CMS	Siteleaf, Contentful, NetlifyCMS
Hosting services	Google App Engine, AWS, Netlify, WordPress VIP, Vercel
Other	Gulp, Webpack, Squarespace, Webflow

Working Experience

Upperquad   **Nov 2016 to Present**

Technical Lead	Feb 2020 to present
Senior Developer	Nov 2018 to Feb 2020
Front End Developer	Nov 2016 to Oct 2018

- Wrote code for award-winning interactive websites and applications using cutting-edge browser technologies for more than thirty companies in a variety of industries, including Google, Stanford d.school, Patagonia, Meta, Affirm, 826 Valencia, Lyft, Instagram, SV Angel, Schmidt Futures, Hummingbird, HUGE Design, Afresh and more.
  - Created websites and web apps with static website generators and front-end frameworks
  - Designed and built modular libraries, and integrated them with multiple content management systems (CMS)
  - Coded complex interactive experiences, with immersive scroll-based storytelling, data visualization, and 3D graphics
  - Architected backend solutions using custom or open-source solutions, managing SQL databases
  - Implemented RESTful APIs and WebSocket on server- and client-side for full-stack web apps
- Set the technical direction and standards for the company.
  - Enforced coding best practices, including reusable code structure, appropriate design patterns, and component-oriented development.
  - Conducted weekly meetings for the dev team, project retrospectives, and routine one-on-one meetings with dev team members.
  - Advocated higher standards for accessibility in client projects, especially with complex interactions. Pushed for testing with automated checkers and assistive technology to emulate the real-life experience.
- Led web development projects from conception to deployment.
  - Worked closely with clients, estimated project scopes, and consulted on technical needs and requirements.
  - Audited visual designs for technical feasibility and proposed technical solutions.
  - Managed developers on a project-to-project basis to ensure the delivery of high-quality code and efficient collaboration. Defined timelines, delegated tasks, and set up code structure based on each project's technical requirements, budget, and user needs.
  - Worked closely with designers to ensure the final project met the original design specs, all the visual details were polished, and the animations conveyed the right mood.
  - Participated in code reviews to ensure the code was correctly structured, performant, met industry standards, and was compatible with browsers, devices, and operating systems.

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Working Experience (continued)

Fireant Studio   **Jun 2016 - Oct 2016**

Web Design/Development Intern

- Made print ad design for Fireant Studio.
- Designed web assets for Historic Elitch Theatre, Find the Deep, and Colorado Barricade.
- Developed websites for Fireant Studio, Historic Elitch Theatre, eFowl, Find the Deep, and Colorado Barricade using WordPress, with custom themes developed with HTML, PHP, Timber, SCSS, JavaScript, and Gulp.

Education

University of Colorado Boulder   **Aug 2014 to May 2016**

Master of Science in Computer Science

Courses: User-Centered Design and Development, Physical and Tangible Computing, Computer Graphics, Network Systems, Foundations of Software Engineering, Design and Analysis of Algorithms, Object-Oriented Design and Analysis, Data Mining.

Tsinghua University   **Sep 2010 to Jul 2014**

Bachelor of Engineering in Automation

Courses: C++ Programming, Data Structure, Computer Networks and Application, Foundations of Analog Electronics, Digital Electronics, Signals and System Analysis, Modern Detection Technology.