

www.linkedin.com/in/qiwen-hu | <https://github.com/Newiq> | <https://www.wendyhu.website/>

PROFILE

Full-Stack Engineer with expertise in React/Node.js and database optimization. Delivered 5+ web applications improving user engagement. Passionate about building performant systems with modern stacks (Next.js/Laravel/Azure).

SKILLS

- **Language:** JavaScript/TypeScript, Python, PHP, SQL, HTML/CSS, C#
- **Frontend:** React.js, Next.js, Bootstrap, Redux
- **Backend:** Node.js, Express, Laravel, RESTful APIs
- **Databases:** PostgreSQL, MySQL, MongoDB
- **DevOps & Tools:** AWS, Vercel, Git, Jira, Postman, Unity, Docker
- **Methodologies:** Agile/Scrum, OOP, TDD

EDUCATION

Carleton University | Master of Information Technology

JAN 2022 - JUN 2024, OTTAWA | GPA: 4.0/4.0

Hubei University of Economics | Bachelor of Computer Science

SEP 2017 - JUN 2021, CHINA | GPA: 3.5/4.0

BrainStation | Diploma, Software Engineer

JUL 2024 - SEP 2024, OTTAWA | GPA: 3.7/4.0

EXPERIENCE

Teach Assistant & Junior Researcher | Carleton University

Jan 2022 - Mar 2024

- **Directed 20+ students** in Unity 3D development workshops, implementing automated grading scripts (C#) that **reduced review time by 35%**.
- **Spearheaded VR accessibility research:** Designed user experiments, implemented prototype systems (C#/Unity), and co-authored peer-reviewed paper on inclusive interaction design.

Project Manager | Zhengguanyizhi Ltd

Sep 2021 - Nov 2022

- **Owned end-to-end product lifecycle:** Conducted market analysis, defined **PRDs/user flows**, and prioritized backlogs for SaaS platform.
- **Shipped 3 core features** by aligning engineering teams, leveraged value curve mapping to deconstruct pricing tiers of 5 competitors

Frontend Developer Intern | Chinasoft

Mar 2020 - Aug 2020

- **Built reusable React components (JavaScript/HTML/CSS)**, enhancing UI consistency and cutting component development time by 40%. **Integrated RESTful APIs** via Axios for dynamic data rendering.

PROJECTS

Full-Stack Developer | Music Management Platform

Sep 2024, BrainStation

- Engineered Next.js/Node.js application with MongoDB backend for digital sheet music management.
- Implemented PDF rendering toolkit (React-PDF) & music annotation features, reducing file load time by 50%.

Lead Researcher & Engineer | ASL Recognition System (Oculus Quest 2)

Jan 2023 - Apr 2024, Carleton University

- Developed real-time sign language interpreter using Unity/C# and MediaPipe ML framework, achieving 95% gesture accuracy.
- Designed VR tutorial interface with hand-tracking API, cutting learning curve by 40% in user tests.

VOLUNTEERS

Frontend Engineer | Ottawa POP Orchestra

Sep 2023 - Present

- Redesigned responsive website via **Squarespace** CMS, injecting custom **HTML/CSS/JavaScript** to extend template functionality; engineered ticketing system integrations streamlining ticket purchasing flows.

PHP Programmer Co-op | Digitera Interactive

Jan 2025 - May 2025

- Developed full-stack features for open-source SaaS platform using **Laravel** framework, implementing RESTful APIs and optimizing **database** architecture to enhance application scalability.