

# Jingyan Gu, Full Stack Developer

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## EMPLOYMENT HISTORY

Jan 2022 — Present

### Full Stack Developer, Karl W. Richter Ltd

Toronto

- **IoT Vending Machine Project:** Designed and developed a custom vending machine, replacing the need for \$60,000 externally sourced machines. Led hardware, software, and circuitry integration, reducing the cost per unit to under \$5,000, significantly improving production efficiency, and achieving substantial cost savings for the company.
- **Frontend Development:** Designed user-friendly web and mobile apps using Vue3, Kotlin, and Swift to streamline communication and reduce the time for customers to fetch product details, quotes, and other information. Developed mobile apps for staff to scan orders and retrieve items, cutting processing time by 90%. Implemented complex UI features and integrated third-party libraries, ensuring smooth interaction with backend systems.
- **Backend Development:** Built robust backend systems with Java Springboot, created RESTful APIs, optimized performance, and enforced data security. Collaborated with teams for seamless front-end and back-end integration.
- **Hardware & Device Maintenance:** Maintained warehouse hardware by troubleshooting and repairing devices, minimizing downtime. Performed in-house repairs, eliminating expensive external repair fees and ensuring timely access to replacement parts.
- **Network & Systems Configuration:** Configured and maintained network connectivity and software systems, troubleshooting issues, and optimizing server performance. Implemented security protocols to safeguard data.
- **Office Workflow Optimization:** Developed customized workplace automation tools and researched/deployed open-source solutions, increasing office productivity by 15%. Provided staff training and support to ensure smooth adoption and integration of these tools into daily workflows.
- **Open Source Deployment:** Deployed self-hosted open-source tools like Odo ERP/CRM system, RustDesk for remote desktop solution, and Bitwarden for password management, enhancing productivity and streamlining office workflows. Provided training and support to ensure smooth adoption and integration across teams.

Jan 2018 — Jan 2022

### Independent Developer, Freelance

- Developed and maintained web applications and custom software solutions for clients, ensuring high performance and user satisfaction.
- Collaborated with clients to gather requirements and develop scalable solutions aligned with business needs.
- Provided technical support and training to clients, ensuring smooth adoption and integration of software solutions.

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## EDUCATION

Jan 2020 — Aug 2022

### Humber College Institute of Technology & Advanced Learning

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## SKILLS

IoT: Django, MQTT, Raspberry Pi, Arduino, Circuit Design, PCB Design

Backend: Java Springboot

Frontend: Vue.js, UX/UI, SEO, Wordpress

Mobile App Development: Android, iOS

Operating System: Unix/Linux, Windows, MacOS

Scripting Languages: PHP, Python, C#/ASP.NET

Database Management: Design, Programming, Administration

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## LANGUAGES

Chinese

English