

Daniel Zheng

Senior Software Developer | Cloud-Native & Industrial IoT Solutions

☎ 226-377-8139 | ✉ danielzhong@gmail.com | 📍 Ontario, Canada | 🌐 danielzheng-work.github.io/portfolio

PROFESSIONAL SUMMARY

Senior Software Developer with 4+ years of experience architecting cloud-native Industrial IoT platforms, public APIs, and scalable full-stack applications. Proven success leading technical initiatives, mentoring engineers, and delivering high-performance software using Node.js, React, and Google Cloud. Skilled in API design, distributed systems, cloud architecture, CI/CD, and cross-functional collaboration to deliver secure, scalable products.

KEY SKILLS

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|----------------------------|----------------------------------|
| ✓ Cloud Architecture | ✓ API Design & Development |
| ✓ Software Architecture | ✓ Distributed Systems |
| ✓ Technical Leadership | ✓ CI/CD & DevOps |
| ✓ Performance Optimization | ✓ System Modernization |
| ✓ Agile Development | ✓ Cross-functional Collaboration |

EXPERIENCE

Systems With Intelligence

Ontario, Canada

Senior Software Developer

June 2022 – Present

- Led technical delivery of an **Industrial IoT customer dashboard**, guiding architecture decisions and scalable feature development.
- Mentored **two full-time developers and multiple co-op students** through code reviews, technical coaching, and delivery support.
- Architected the company's public IoT API from scratch and designed its supporting **Google Cloud architecture**.
- Built **20+ secure REST APIs** with **JWT authentication**, enabling reliable customer and partner integrations.
- Supported acquisition of **10+ enterprise organizations in the first month** by delivering production-ready platform capabilities.
- Reduced dashboard rendering time from approximately **30 seconds to under 5 seconds** using hierarchical time-series aggregation.
- Modernized the customer portal and delivered **Access Groups** and **Label Management** to improve administration and usability.
- Improved release quality through **CI/CD pipelines and automated testing** while collaborating with Product, Manufacturing, QA, and Operations.

Twins TouCans Inc.

Ontario, Canada

Software Developer Intern

September 2021 – December 2021

- Developed warehouse management functionality using **Django and Python** to streamline inventory operations.
- Integrated the **Amazon Selling Partner API** to synchronize inventory data across sales and warehouse systems.
- Automated order-processing workflows, reducing manual coordination and improving operational consistency.

PROJECTS

AI Portfolio Website (In Progress)

- Redesigning and modernizing my personal portfolio website with a **responsive UI** and improved user experience.
- Building an **AI-powered assistant** that represents my professional persona, enabling visitors to ask **natural-language questions** about my experience, projects, technical skills, and career.
- Designing a **Retrieval-Augmented Generation (RAG) pipeline** that retrieves curated personal knowledge from external documents to generate **accurate, context-aware responses** while reducing hallucinations.

EDUCATION

Bachelor of Applied Science, Honours Computer Science, McMaster University

2017–2022

TECHNICAL HIGHLIGHTS

JavaScript • Python • Java • C/C++ • React • Next.js • React Native • Node.js • Express • REST APIs • Google Cloud • Docker • Git • Bitbucket Pipelines • MySQL • Datastore