

# Luke Huang

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## Summary

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- Data Analyst with a strong foundation in mathematics, computer science, and statistical modeling, focused on transforming complex data into actionable insights.
- Skilled in Python, R, SQL, and data visualization with hands-on experience in data cleaning, data processing, web scraping, automation, and dashboard development.
- Culturally adaptable, with global exposure through international work, travel, and academic experiences.

## Education

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**McMaster University** — Hamilton, ON, Canada

*Expected 2026*

*Honours Bachelor of Science, Major: Mathematics & Computer Science; Minor: Music*

Relevant Coursework: Data Structures & Algorithms, Databases, Machine Learning, Data Science, Data Mining, Algorithms & Complexity, Real Analysis, Complex Analysis, Data-Driven Algorithms.

## Professional Experience

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**GK Industries** — Burlington, ON, Canada

2025

Technical Marketing Support

- Built automated data extraction pipelines using Python (Selenium) to collect product information from 11 industry-leading brand websites to enrich the GKI catalogue alongside communication with JNP.
- Delivered periodic presentations to senior management on project progress, data insights, and automation outcomes, translating technical findings into actionable business strategies.
- Streamlined cross-department file transfer workflows by developing compatibility solutions across legacy Microsoft and finance systems, reducing version-related errors across teams.
- Discovered 3,721 new product interchanges and 1,299 new applications, unlocking a potential market of 23M+ vehicles in North America.

**Huan Ran** — Chengdu, China

Summer 2024

Web Developer Intern

- Collaborated on projects involving H5 HTML, Java (Maven, MyBatis), Axure, and product management, gaining hands-on experience in multiple aspects of web development.
- Explored the future potential of the AR (augmented reality) industry, gaining insights into cutting-edge technologies and industry trends with Vision Pro apps such as JD.
- Worked closely with a team of four members on daily coding tasks, fostering strong teamwork.

**Deeth & Co. LLP** — Mississauga, ON, Canada

Summer 2023

IT Support Intern

- Led a short-term project focusing on various aspects of the Microsoft Suite, including Project on the Web and Power Apps, enhancing the firm's digital capabilities.
- Developed and implemented a comprehensive schedule board for employee management using Microsoft Power Apps, improving efficiency and coordination.
- Integrated multiple Microsoft products, such as Power BI and Project, using Power Automate to streamline workflows and enhance data connectivity, in collaboration with senior management.

- Managed and cleaned a dataset of 40,000+ patient records in R (dplyr, ggplot2, tidyverse), flagging missing values and improving data quality.
- Built interactive Excel dashboards and presented findings to senior managers in the Prevent-It study.
- Streamlined workflows for the Aqueous-prep database, improving efficiency of clinical screening documentation.

## Projects

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**Automated Product Data Scraper** — Python, Selenium 2025  
[https://github.com/huanl9/Multi\\_brand\\_filter\\_scraper](https://github.com/huanl9/Multi_brand_filter_scraper)

- Developed a multi-brand Selenium scraping suite with anti-bot evasion, dynamic scrolling, and error recovery to extract product data from 11 industry websites.
- Automated data cleaning and transformation using pandas, producing structured Excel outputs with progress-saving checkpoints.
- Published documented source code and sample datasets on GitHub to demonstrate reproducibility and technical design.

**jcj21.com Web Platform (Volunteer)** — HTML, JavaScript 2020–2022

- Maintained and enhanced jcj21.com by conducting end-to-end validation for over two years, contributing to raise over \$20,000 during COVID-19 through multiple charity sales.
- Developed mobile and web versions of jcj21.com using HTML and JavaScript, ensuring a seamless user experience across various devices.
- Led a team of six junior volunteers in charity sales and distribution, actively participating in organizing and managing events to support community fundraising events.

## Technical Skills

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Programming & Data: Python (Selenium), R, SQL, JavaScript, HTML, Java (Maven, MyBatis), C  
Visualization: Power BI, Excel (dashboards, pivot tables), R/ggplot  
Tools & Platforms: Web Scraping, Power Apps, Power Automate, Git, Axure  
Languages: English (Native), Mandarin (Native), Spanish (Beginner)

## Additional Highlights

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- Traveled to 30 countries, including 8 independently. Gained strong cross-cultural communication skills and global perspective by navigating diverse societies, systems, and challenges.
- Representing GK Industries at CES 2026 (Las Vegas), to engage with global industry leaders, expand professional networks, and explore advances in AI, data analytics, and emerging technologies.
- Performed as Clarinetist in 12 concerts with the McMaster Concert Band, including multiple sold-out shows, demonstrating dedication, teamwork, and discipline in high-pressure public settings.

## Certifications & Interests

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Certification: Deep Learning Specialization (DeepLearning.AI); First Aid & CPR Certified; Royal Conservatory of Music Grade 10 Piano & Grade 7 Clarinet.  
Interests: Travel; History; NBA; Music; Movies & TV Shows.