

Zain Khan

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EDUCATION

University of Waterloo

BASc, Computer Engineering

Sep. 2025 – Apr. 2030 (Expected)

Waterloo, ON

EXPERIENCE

Kasperia

Frontend Developer (Contract)

Jun. 2023 – Present

Vancouver, BC

- Developed and deployed company website, improving load speed by **30%** and reducing maintenance by **25%** through modular CSS and reusable components.
- Integrated JS-based interactivity and optimized media handling, enhancing visual consistency and mobile responsiveness.

Kasperia

Data Analytics & Dashboard Developer

Sep. 2023 – Present

Remote

- Built automated data pipelines using JavaScript, SQL, and REST APIs, achieving **100% uptime** and cutting manual reporting time by **40%**.
- Created interactive dashboards with React and Chart.js to visualize data and track website traffic in real time.
- Delivered insights that boosted client engagement by **35%**.

PROJECTS

Arcade Cabinet System | Raspberry Pi, Python, JavaScript

Dec. 2023 – Jun. 2025

- Built a full-scale Raspberry Pi arcade system with optimized GPIO handling, achieving **20% faster** input response under load.
- Repurposed the system as a fundraising platform sustaining the school coding club post-graduation.

Personal Portfolio Website | React, Figma, HTML/CSS, Vercel

2025

- Developed and deployed a responsive portfolio using React and CSS Grid, versioned through Git and hosted on Vercel.

LEADERSHIP & VOLUNTEERING

Advanced Biomedical Equipment Program

2024 – Present

- Developed the website for Kasperia's nonprofit branch, enabling hospitals and patients to request assistive equipment online.
- Built interactive forms and submission workflows improving accessibility and communication efficiency.

Code Ninjas (Instructor)

Jul. 2024

- Taught over **60 children (ages 5–14)** coding fundamentals in JavaScript and MakeCode through project-based learning.
- Adapted instruction dynamically to student progress, improving lesson comprehension by **25%**.

Terry Fox Foundation (Volunteer)

2021 – 2024

- Assisted logistics and setup for charity runs supporting **400+ participants** across multiple community routes.

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, Java, C#

Web: React, Firebase, Chart.js, Figma, responsive design

Hardware: Raspberry Pi, GPIO, circuit testing, soldering

Data: SQL, Excel VBA, Looker Studio, automation scripting

Tools: Git, Node.js, VS Code, Linux, Fusion 360