

# Zain Khan

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## EDUCATION

### University of Waterloo

*Bachelor of Applied Science in Computer Engineering*

Waterloo, ON

*Sept. 2025 – Apr. 2030 (Expected)*

## EXPERIENCE

### Frontend Developer

Jun. 2023 – Present

*Kasperia*

*Vancouver, BC*

- Designed and deployed [kasperia.ca](https://kasperia.ca) using HTML, CSS, and JavaScript, optimizing UI for responsiveness and performance.
- Implemented reusable components and clean code structure to enable long-term scalability and maintainability.

### Data Analytics & Dashboard Developer

Sep. 2023 – Present

*Kasperia*

*Remote*

- Built automated data pipelines with JavaScript event tracking, SQL, and APIs to capture website user behavior.
- Delivered interactive dashboards with Looker Studio / React + Chart.js to track engagement (clickstream, conversions, session time).
- Enabled data-driven decision making by providing real-time insights into customer interactions.

## PROJECTS

### Arcade Project | *Raspberry Pi, Hardware Assembly, Python, JavaScript*

Dec. 2023 – Present

- Designed and built a fully functional retro gaming arcade system integrating Raspberry Pi, joysticks, speakers, and 1,000+ games.
- Led hardware assembly and software configuration, while producing documentation to support long-term maintainability.
- Repurposed as a sustainable fundraising initiative, generating ongoing support for coding-related activities.

### Flappy Bird Replica (Immy Bird) | *Firebase, JavaScript, HTML/CSS*

- Developed an interactive web game with a custom login system and real-time leaderboard using Firebase.
- Implemented cookies for session management and dynamic leaderboard updates, improving user experience.

### Caesar Cipher Tool | *Python, Cryptography*

- Built an encryption/decryption tool using Python dictionaries to implement the Caesar cipher.
- Demonstrated algorithmic problem-solving and applied fundamental cryptographic principles.

## LEADERSHIP & VOLUNTEERING

### Code Ninjas (Volunteer Staff)

Jul. 2024

- Taught coding to children (ages 5–14) using Microsoft MakeCode and JavaScript, promoting collaboration.

### Terry Fox Foundation (Volunteer)

2021 – 2024

- Assisted with route coordination and participant support during charity runs, contributing to event logistics.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, C, HTML/CSS

**Web Development:** Responsive design, UI optimization, Firebase integration

**Databases:** SQL, Firebase (real-time database, authentication)

**Design:** CAD & 3D modeling (Fusion 360, Blender, AutoCAD)

**Hardware:** Raspberry Pi prototyping, embedded systems, hardware assembly

**Automation:** Excel VBA scripting, process automation

**Frameworks/Tools:** React, Node.js, Git, Chart.js