

# Khizar Zaman

647-460-9161 | [khiz.zaman@gmail.com](mailto:khiz.zaman@gmail.com) | [linkedin.com/in/khizarz](https://www.linkedin.com/in/khizarz) | [github.com/khizar-z](https://github.com/khizar-z) | [khizar.ca](https://khizar.ca)

## EDUCATION

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### University of Toronto

*Honours Bachelor of Science in Computer Science & Philosophy*

- **GPA: 4.0/4.0** | President's Scholar of Excellence

Toronto, ON

*Expected Apr. 2029*

## EXPERIENCE

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### Frontend Developer Intern

Feb. 2023 – May. 2023

*Minvest Finance*

- Delivered a functional prototype web interface for an investment platform from scratch in under six weeks, translating Figma mockups into pixel-accurate components using vanilla HTML, CSS, and JavaScript.
- Integrated the frontend with a Java backend via REST API calls, handling asynchronous data fetching and dynamic rendering of investment data across multiple views.
- Shipped a working demo used by the founding team to validate product direction and gather early user feedback ahead of the platform's beta release.

### Developer Executive

Aug. 2022 – Aug. 2023

*Tech Under Twenty*

- Led development of an events mobile app prototype in Flutter for a youth-led tech non-profit, collaborating with a cross-functional team to ship core features including event listings, filtering, and registration flows.
- Helped organize and staff industry-facing events attracting dozens of teenage participants across Halton Region, coordinating logistics alongside other executives.
- Contributed to the organization's technical direction and developer culture as one of the executive team's two technical members.

## PROJECTS

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### Panda – Hack The Student Life 2026 | *Python, FastAPI, HTML/CSS/JS, AWS Bedrock* [GitHub](#) | Mar. 2026

- Built a research-discovery web app matching UofT students to faculty research opportunities at Hack The Student Life 2026, targeting Challenge Area 3 (network visibility and personalized matching).
- Scraped and enriched profiles for 85 UofT CS professors; generated embeddings via Amazon Bedrock Titan and implemented semantic search using NumPy cosine similarity.
- Integrated Amazon Bedrock Nova LLMs to generate AI-powered paper summaries, outreach pointers, and cold-email drafts from uploaded student resumes; logged search activity to Amazon DynamoDB.

### WikiFish – WikiRace Analysis Engine | *Python, Dash, Plotly, NetworkX, NumPy* [GitHub](#) | Jan. 2026

- Built a post-game analysis engine for WikiRace (a hyperlink navigation game) over a directed graph of 1.79M Wikipedia articles and 28.5M edges from the Stanford SNAP wiki-topcats dataset.
- Implemented BFS, bidirectional BFS, and A\* search with a Jaccard category-overlap heuristic; classified every player move as GREAT, OPTIMAL, NEUTRAL, or BLUNDER by computing exact hop-counts to the target at each step.
- Built an interactive Dash web interface with a Stockfish-inspired position evaluation chart, clickable move inspection panel, and a NetworkX/Plotly path network diagram.

### sentinel – Hack the North 2022 | *TypeScript, React, AssemblyAI, Cohere* Sep. 2022

- Competed in Hack The North 2022, Canada's largest hackathon hosted by the University of Waterloo.
- Developed a Twitch sentiment analysis pipeline that classifies live-chat sentiment in real time; demoed to hundreds of visitors.

### MyTable – StemWarriorHacks 2021 Winner | *Vue.js, TailwindCSS, Vercel Serverless* Aug. 2021

- Developed a highly customizable calendar app suited for niche use cases including gardening schedules, school planners, and health tracking.
- Won the Best Beginners' Hack prize at StemWarriorHacks 2021 out of 500 participants.

## TECHNICAL SKILLS

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**Languages:** Python · JavaScript · TypeScript · C/C++ · HTML/CSS · VBA

**Frameworks & Libraries:** React · FastAPI · Vue.js · Node.js · NumPy · Dash · Plotly

**Cloud & Tools:** AWS (Bedrock, DynamoDB) · Google Apps Script · REST APIs · Git · Docker · Firebase