

# Hamza Khan

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## EDUCATION

### Victoria Park Collegiate Institute

High School Diploma, IB Diploma

Toronto, Ontario

Sep. 2022 – June 2026

## EXPERIENCE

### Machine Learning and Bioinformatics Intern

Jul. 2024 – Present

STEM-Away

Remote

- Collaborating with PhD students to develop a Graph Neural Network for Gene-Disease Prediction and Causality Chain Discovery
- Exploring biological databases, implementing advanced machine learning models, and simulating real-world applications in disease research

### CTO and Full-stack Developer

Jul. 2024 – Present

Klastra

Remote

- Leading software development of Klastra AI, a platform for rapid skill acquisition using AI and expert guidance
- Utilized Next.js, React, TypeScript, Tailwind CSS, Python, Aceternity, PostgreSQL, and GitHub for development

### Lead Web Developer Intern

Apr. 2024 – June 2024

Skm AI

Toronto, Ontario

- Created web app for Skm AI extension enabling users to ask questions about video content
- Utilized React, JavaScript, HTML, Tailwind CSS, Shadcn/ui, Vite, Firebase, and GitHub for development

### CTO and Lead Developer

Mar. 2024 – Present

Speed Select

Remote

- Developing a website for employers to manage resumes under job listings
- Implemented features including user forms, hand sign recognition, and AI matching
- Utilized React, JavaScript, Python ML, CSS, Vite, Tailwind CSS, Firebase, and GitHub for development

### Cofounder and Full-Stack Developer

Feb. 2024 – Present

WizdomCode

Toronto, Ontario

- Created website to teach and practice Competitive Programming for all ages
- Utilized React, JavaScript, Python, Flask, Firebase, Docker, AWS, and GitHub for development

### Chair and CEO

Aug. 2023 – Present

Kurius

Remote

- Revitalized a coding organization with 2200 members, organizing successful classes and a hackathon with prizes exceeding \$12,000
- Collaborated with a global executive team of high school and university students.

## CERTIFICATES AND ACHIEVEMENTS

### 1st Place Saint Lawrence College Coding Contest

Mar 2024

Placed first in the Saint Lawrence College Coding Contest as a team of 4 tenth graders

### Waterloo Senior Canadian Computing Competition Distinction

Mar 2024

Top 25 percent of Senior CCC from Waterloo University as a junior

### Waterloo Beaver Computing Competition Honor Roll

Nov 2023

Top 1 percent of BCC from Waterloo University in grade 10

## TECHNICAL SKILLS

**Languages:** JavaScript, Java, Python, C/C++, HTML, CSS, Unreal Engine Blueprints

**Frameworks:** React.js, Next.js, Node.js, Django, Flask, Tailwind CSS, PostgreSQL, Shadcn/ui, Mantine UI, Material UI

**Developer Tools:** GitHub, Docker, Redux, VS Code, PyCharm, Eclipse, Unreal Engine, Unity, Firebase, AWS, Stripe

**Libraries:** pandas, numpy, matplotlib, seaborn, scikit-learn, scipy, tensorflow