

# Krish Krish

[krishkrish.com](http://krishkrish.com) | [krish120003@gmail.com](mailto:krish120003@gmail.com) | [github.com/Krish120003](https://github.com/Krish120003) | [linkedin.com/in/krish-krish](https://linkedin.com/in/krish-krish)

## EDUCATION

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### McMaster University

B.A.Sc. Computer Science - GPA 4.0

2021 - 2025

*Hamilton, ON*

### Certified Associate Cloud Engineer

Google Cloud Platform

June 2022

## EXPERIENCE

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### Technical Vice President

DeltaHacks

July 2022 – Present

*Hamilton, ON*

- Led development of a custom hackathon platform utilized by **over 1650 users**.
- Managed a team of **12 developers**, planning and organizing development within a given timeline.
- Communicated with **6 teams** in various fields to fulfill design and technical requirements.

### Teaching Assistant

McMaster University

January 2023 - Present

*Hamilton, ON*

- Optimized grading process for **1000+** assignment submissions by developing **auto-grading** software using Python.
- Conducted live classroom instruction, delivering clear explanations on various Python programming concepts.
- Collaborated with fellow TAs and created weekly exercises and solutions for **500+** students.

### Junior Software Developer

Synergy Machines LLC

July 2021 – December 2022

*Remote*

- Created realtime analytics dashboards by **visualizing 20+ data points over 17 types of charts and graphs**.
- Normalized ESG data from **7 unique datasets** with over 30 million entries into PostgreSQL databases for **analysis and feature extraction**.
- Collaborated with 20 other developers and managers within an Agile work environment over 4 separate projects.

## PROJECTS

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### DeltaHacks Portal

Next.js, React, Netlify, Typescript, Postgres, OAuth, Github

August 2022 - Present

- Wrote a hackathon management platform to handle public applications, as well as manage in-person identity and meal tickets through a **dynamic QR code system**.
- Deployed a shared applicant/admin platform with a **role based system** to review **2000+ collected applications**.
- Designed and programmed mobile-responsive frontend pages using React in Next.js to ensure application portability.
- Collaborated and lead a **team of 12** programmers using Git, Github and Figma.

### Neural Network in C++

C++, Machine Learning

October 2023

- Engineered a C++ neural network for MNIST digit classification, featuring modular classes for neurons, dense layers, and various activation functions.
- Implemented back-propagation from scratch and achieved **90%+ accuracy** with various network architectures.
- Wrote a detailed report, showcasing **6 models** trained to predict **65000+ handwritten digits correctly**.

### Bat - Historical Player Stats Tracking

Python, asyncio, aiohttp, Pillow, discord.py, SQLite

January 2020 - September 2022

- Hosted and scaled the app to store and serve player game statistics to over **100,000+ users**.
- Generated thousands of images on-demand using Pillow to visualize player performance.
- Collected **millions of data points** on player trophies, enabling comprehensive tracking of user progress and improvements.

### River - RSVP Platform

Next.js, React

March 2023

- Pioneered an RSVP app, optimized for user experience with a sleek yet fast interface.
- Mastered a tech stack featuring Next.js, Prisma, NextAuth.js, and tRPC, optimizing pages to **load in less than 100ms**
- Including a dynamic dashboard, dark mode customization, and analytics for a smooth organizer experience.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, TypeScript, HTML, CSS, Java, Rust, SQL, C/C++

**Libraries/Frameworks:** Flask, React, NextJS, Numpy, PyTorch, Tailwind CSS

**Tools:** Google Cloud, Git, GitHub, Docker, Linux, Jupyter, Figma