

# Krish Krish

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## EDUCATION

### McMaster University

B.A.Sc. Computer Science - GPA 4.0

### Certified Associate Cloud Engineer

Google Cloud Platform

2021 - 2025

Hamilton, ON

June 2022

## EXPERIENCE

### Teaching Assistant

McMaster University

Jan 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 to assess student comprehension and address learning challenges effectively, ensuring good resources are provided for **400+** students.

### Technical Vice President

DeltaHacks

July 2022 - Present

Hamilton, ON

- Led development of a custom hackathon platform utilized by over **600 participants and 100 volunteers**.
- Managed a team of **12 developers** and organized and planned development within a given timeline.
- Pioneered the team towards writing performant and organized code in NextJS and React, resulting in a **perfect Google Lighthouse score** and a fast response time.
- Communicated with **6 teams** in various fields to fulfill design, and technical requirements to create the best possible product.

### Junior Software Developer

Synergy Machines LLC

July 2021 - December 2022

Remote

- Extracted insights from data and built an analytics dashboards using React + NextJS with Typescript to provide quick and concise **summaries of realtime data** for stakeholders.
- Imported ESG data from **7 unique datasets** into PostgreSQL databases for **analysis and feature extraction**.
- Securely exposed data with APIs made using Java Spring Boot to customer-facing web applications.
- Collaborated 20 other developers and managers within an **Agile work environment** over 4 separate projects.

## PROJECTS

### Neural Network in C++

C++, Machine Learning

October 2023 - Present

- Implemented a C++ neural network for MNIST digit classification, featuring modular classes for Neurons, DenseLayers, and activation functions (**ReLU**, **LeakyReLU**, **Sigmoid**).
- Implemented backpropagation from scratch, exploring different network structures and achieving **90%+ accuracy** by adapting the network to output vectors with one-hot encoded labels.
- Wrote a detailed report, showcasing **6 models** trained to predict **65000+ handwritten digits correctly**.

### DeltaHacks Portal

NextJS, React, Netlify, Typescript, Postgres, OAuth, Github

August 2022 - Present

- Designed and programmed mobile-responsive frontend pages using React in NextJS.
- Led development of a typesafe backend using Typescript, tRPC, and Next-Auth for security.
- Collaborated and directed a team of 12 programmers using Git, Github and Figma within Agile work conditions.
- Guided technical executives through linking React with backend components with Typesafety as a focal point.
- Explored usage of Natural Language Processing models from HuggingFace to build automate application reviews.

### Bat - Historical Player Stats Tracking

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

January 2020 - September 2022

- Generated images on demand using Pillow and Utilized the asynchronous programming model with aiohttp and discord.py libraries for optimized user experience.
- Hosted and scaled the bot to store and serve player game statistics to over **100,000 users**.
- Implemented an optimized storage system, **managing millions of data points** on player trophies, enabling comprehensive tracking of user progress and improvements.

## TECHNICAL SKILLS

**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