Krish Krish

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EDUCATION

McMaster University　　　　　　　　　　　　　　　　　　　　　　　2021 - 2025
B.A.Sc. Computer Science - GPA **4.0**　　　　　　　　　　　　　　　　*Hamilton, ON*

Certified Associate Cloud Engineer 🔗　　　　　　　　　　　　　　　June 2022
Google Cloud Platform

EXPERIENCE

Technical Vice President　　　　　　　　　　　　　　　　　July 2022 – Present
DeltaHacks　　　　　　　　　　　　　　　　　　　　　　　　　*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.
- Communicated with **6 teams** in various fields to fulfill design and technical requirements.

Teaching Assistant　　　　　　　　　　　　　　　　　　　Jan 2023 - Present
McMaster University　　　　　　　　　　　　　　　　　　　　　*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 educational resources for **500+** students.

Junior Software Developer　　　　　　　　　　　　　　July 2021 – December 2022
Synergy Machines LLC　　　　　　　　　　　　　　　　　　　　　　　*Remote*
- Created realtime analytics dashboards by **visualizing 20+ data points** over **7 types of charts and graphs.**
- Imported ESG data from **7 unique datasets** into PostgreSQL databases for **analysis and feature extraction**.
- Collaborated 20 other developers and managers within an Agile work environment over 4 seperate projects.

PROJECTS

DeltaHacks Portal 🔗　　　　　　　　　　　　　　　　　　August 2022 - Present
Next.JS, React, Netlify, Typescript, Postgres, OAuth, Github
- Deployed a shared applicant/admin platform to review **2000+ collected applications**.
- Designed and programmed mobile-responsive frontend pages using React in Next.JS.
- Collaborated and lead a team of 12 programmers using Git, Github and Figma.

Neural Network in C++ 🔗　　　　　　　　　　　　　　　　　　　October 2023
C++, Machine Learning
- Implemented a C++ neural network for MNIST digit classification, featuring modular classes for Neurons, DenseLayers, 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　　　　　　January 2020 - September 2022
Python, asyncio, aiohttp, Pillow, discord.py, SQLite
- Hosted and scaled the bot to store and serve player game statistics to over **100,000+ users**.
- Generated thousands of images on-demand using Pillow for better UX.
- Collected **millions of data points** on player trophies, enabling comprehensive tracking of user progress and improvements.

River - RSVP Platform　　　　　　　　　　　　　　　　　　　　March 2023
Next.JS, React
- 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

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