

# Krish Krish

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## TECHNICAL SKILLS

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

**Libraries/Frameworks:** React.js, Next.js, Node.js, Flask, FastAPI, Pydantic, SQLAlchemy

**Tools:** Linux, Git, GitHub, Docker, Google Cloud Platform, PostgreSQL, Jira

## EXPERIENCE

### Software Engineering Intern

May 2024 - Present

*Bell Canada*

*Toronto, ON*

- Created an automated translation tool using advanced RAG (Retrieval-Augmented Generation) and LLM techniques, reducing translation costs from **\$4 million annually to just \$1,000**.
- Saved **10,000+ hours** and **millions** in costs annually by automating customer support training using LLMs.
- Designed efficient pipelines to create vector embeddings over **11 million** data entries on Google Cloud Platform.
- Implemented full stack applications using **React, Next.JS, Python, FastAPI and PostgreSQL**.

### VP of Technical (Volunteer)

July 2022 - Present

*DeltaHacks*

*Hamilton, ON*

- Built a custom, full-stack hackathon platform, empowering **4,500+ users** with seamless event management.
- Engineered robust internal tools such as role-based administration for reviewing **3,000+ applications**, dynamic **QR code system** for id verification, meal tracking and more to support event and sponsorship teams.
- Developed a **custom graph-based matchmaking engine**, enabling over 2500 meaningful connections.
- Led a team of 12 developers, collaborating across events, design, and sponsorship teams to create a cohesive and high-impact hackathon experience.

### Teaching Assistant

January 2023 - April 2024

*McMaster University*

*Hamilton, ON*

- Optimized grading process for **2,000+ assignment submissions** by making an auto-grader using Python.
- Conducted live classroom instruction to 500+ students on various Python programming concepts.

### Software Developer Intern

May 2022 - August 2022

*Synergy Machines LLC*

*Remote*

- Engineered **dynamic dashboard builder** in React, empowering users to create custom real-time visualizations.
- Optimized ESG data processing pipeline, handling **millions of data points** via PostgreSQL and Java Spring APIs.

## PASSION PROJECTS

### JSON Parser in Rust | *Rust, JSON, Parsing, AST, Trees*

June 2024

- Built a hand-written JSON parser in **under 500 lines of code**, parsing JSON source from a string and constructing objects in memory.
- Published a blog post detailing the process at on my website, explaining parsing and tree-based data structures.

### Integrity - Hackathon Plagiarism Checker | *Python, Streamlit, Data Analysis*

May 2024

- Built a plagiarism and cheating detection tool for hackathon submissions using Python, Streamlit, and LLMs.
- Implemented **automated forensic analysis** to identify suspicious patterns and bad actor projects.

### Bat - Clash of Clans Player Stats | *Python, Pillow, Data Visualization*

January 2020 – September 2022

- Developed a scalable Discord bot to store and serve player game statistics for over **100,000+ users**.
- Generated **1000+ images/min** for performance visualizations, offering players real-time insights.
- Collected and processed **millions of data points** on player trophies, enabling comprehensive tracking and detailed progress analysis over time.

## EDUCATION

### McMaster University

Hamilton, ON

*Bachelor of Science in Computer Science — GPA: 4.0*

*Sept. 2021 - Apr. 2026*