

Kaustav Das Sharma

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EDUCATION

McGill University

Bachelor of Engineering - Computer Engineering (Co-op Program)

Montréal, Canada

September 2017 - May 2022

SKILLS SUMMARY

- **Languages:** Java, Python, JavaScript, TypeScript, Bash.
- **Frameworks/Tools:** TensorFlow, PyTorch, Node.js, Express.js, MongoDB, Docker, Git, Visual Studio Code, Eclipse, Vim.
- **Platforms:** Linux, Web, macOS, AWS, GCP.
- **Languages:** English, Hindi, Bengali (fluent), French (proficient).

WORK EXPERIENCE

Wrnch

Software Engineer Intern (Full-time)

Montréal, Canada

May 2021 - August 2021

- Worked with a team of 9 PhDs to architect and deploy a model convertor tool.
- Optimised major model deployment issues in channel ordering, input batch size manipulation and schema regeneration, **reducing latency by 33%** for external optimisation and deployment teams.

Aarish Technologies

Software Engineer Intern (Full-time & Part-time)

Remote

May 2020 - March 2021

- Produced **3 IDE extensions** for conversion, optimization, visualization and inferencing of convolutional neural networks using **Eclipse Theia and Open Neural Network Exchange**.
- Acted as scrum master, defined project goals, timelines and deliverables for a team of 5.

Ericsson

Software Developer Intern (Full-time)

Montréal, Canada

September 2019 - December 2019

- Accelerated overall workflow with a new pipeline which automated feature and system test tracking and execution.

Great North Data

Software Developer Intern (Full-time)

St. John's, Newfoundland

June 2019 - August 2019

- Developed an intracompany dashboard from scratch which tracks cryptocurrency-related market events and financial metrics.
- Deployed on AWS Lightsail, reduced average look up time by **83% during client acquisition calls**.

PERSONAL PROJECTS

- **McGillRTC:**
Chat roulette made to increase student interaction during the pandemic. Built UI using **Vue with a Firebase backend**.
- **Pentago Twist AI:**
Developed a portion of the game engine and devised graph algorithms for Minimax search, Monte Carlo Tree Search and reinforcement learning to play the Moku game Pentago Twist in **Java**.
- **Co-Founder of primeAID (Dobson Cup Semi-Finalist and ConUHacks 2020 Winner):**
Worked primarily on making endpoints using **Django** for medical institutions to triage and book patients digitally.
- **Options Trading Simulator (5th/800 teams in Canada, TMX Challenge 2019):**
Designed a **Jupyter notebook** which visualizes and evaluates different options trading strategies and generated **\$50k in 2 months** from an initial portfolio of \$100k.

EXTRACURRICULAR/LEADERSHIP EXPERIENCE

McGill Artificial Intelligence Society

Podcast Team Lead & Producer

May 2021 - Present

- Founded an initiative to interview world-renowned AI researchers focusing on application, theory and ethics.

McGill ECSESS CodeJam

Sponsorship Coordinator

September 2018 - May 2020

- Secured **\$17k** (2018), then **\$53k** (2019) in sponsorship from leading technological companies for a hackathon for **300+** students.
- Recognised as Faculty Event of the Year 2020.

McGill Chapter of Canadian Federation of Engineering Students

Vice President of Finance

June 2018 - May 2019

- Managed an operating budget of **\$250k** to organize an annual engineering conference for **200** domestic & international delegates.

HONORS AND AWARDS

- **Tomlinson Engagement Award for Mentoring at McGill** May 2020
- **Quebec Engineering Competition: 2nd / 18** January 2018, 2019
- **McGill Engineering Competition: 1st / 6** November 2017, 2018
- **ESU United Kingdom National Debate Competition Finalist** February 2017