

# Aryan Misra

aryanmisra4@gmail.com

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## WORK EXPERIENCE

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### McMaster Automotive Resource Center

May 2023 – Present

*Applications Specialist*

*Hamilton, Ontario*

- Developed an internal database management application using Next.js on Azure SWA to streamline backend data management with SQL, Storage Accounts and Azure Functions.
- Developed an ML clustering algorithm visualizer for clients to detect battery faults during quality assurance on the production line.

### Beanstalk Farms (Decentralized Autonomous Org.)

March 2022 – December 2022

*Solidity Developer*

*Remote*

- Developed and integrated a gas optimized Solidity library to facilitate on-chain integration of piecewise polynomials for asset pricing along arbitrary price curves to improve marketplace liquidity depth and allow for detailed analysis of price curves to establish fair market value.
- Worked with Halborn Blockchain Security firm to perform code audit of V2 of the protocol's Pod marketplace.

### Monument Labs

August 2021 – November 2021

*Co-Founder*

*San Francisco, California*

- Raised a VC backed pre-seed round from Nima Capital, Nascent.xyz, Dan Elitzer, Naval Ravikant, etc.
- Built and failed to launch a social token platform. Company pivoted to Serendipity (a PRM) after I left.

### Bitswap Inc.

March 2021 - August 2021

*Co-Founder/Engineering Head*

*Toronto, Ontario*

- Built Bitswap.network: an off-ramp exchange orderbook platform for the decentralized social network Bitclout.
- Facilitated more than \$3 million in transaction volume from 6000+ users. Was offered 100k for 1% of Bitswap from Dharmesh Shah.

## EDUCATION

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### McMaster University

September 2022 - June 2026

*Actuarial and Financial Mathematics (Bachelor of Science)*

*Hamilton, Ontario*

## NOTABLE PROJECTS

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### *Synbiolic*

March 2021

*Microsoft Imagine Cup Finalist*

*Mexico City*

- Placed top 5 of 28,000 contest participants. [Project Synbiolic](#) used generative networks to produce molecules with high likelihood of drug efficacy and created the retrosynthesis pathway to synthesize it.
- Azure ML Rest APIs to host a Stacked RNN for small molecule generation. IBM's RXN framework for retrosynthesis pathway prediction.

### Neurascale

May 2019

*Google #PoweredByTensorflow2.0 Challenge Winner*

*Virtual*

- A super-resolution generative adversarial network (SRGAN) created in Tensorflow 2.0. Upscales an image without losing visual clarity by “generating” missing pixels and stitching image back together.

## SKILLS & INTERESTS

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- **Skills:** Solidity, Javascript (incl. React, Next, etc), Python, Go, C++, AWS/Azure, Image Processing
- **Interests:** hardware; hiking; economics; chess; financial mathematics; gym