

# Aryan Misra

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## WORK EXPERIENCE

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### Beanstalk Farms (Decentralized Autonomous Org.)

March 2022 – Present

*Software Engineer Intern*

*Virtual*

- Developed a gas optimized Solidity library using packed byte arrays to facilitate on-chain (Ethereum) evaluation and integration of piecewise polynomials for asset pricing along user-defined, arbitrary pricing curves.
- Integrated library into V2 of the protocol's decentralized marketplace implementation for exchange of Beanstalk's native debt asset used in peg maintenance, Pods.
- Goal being to improve liquidity depth in the marketplace and allow users to perform complex analysis of price curves to establish a fair market value of Pods.
- Worked with Halborn Blockchain Security firm to perform code audit of V2 of the protocol's Pod marketplace.

### Monument Labs

August – 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 V1 prototype for investors with decentralized livestreaming through Livepeer.

### Bitswap Inc.

March - August 2021

*CTO*

*Toronto, Ontario*

- Bitswap.network was an off-ramp exchange orderbook platform for the decentralized social network Bitclout.
- Facilitated more than \$3 million in transaction volume from 6000+ users. Led product team of 5 engineers.

### AscendBuild

March – September 2020

*Software Engineer Intern*

*Toronto, Ontario*

- Developed UI involving a payments rail and a custom Mapbox GL interface.
- Created a ranking system for real estate properties using various statistical methods on geospatial data.

### Skintelligent Pte Ltd.

July - October 2019

*Software Engineer Intern*

*(Virtual) Singapore*

- Developed multi-task learning convolutional neural network with Tensorflow 2.0 for a project in partnership with Chanel Beauty and Cosmetics Group.

## EDUCATION

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### McMaster University

Sept 2022 - June, 2026 (expected)

*Bachelor of Science, Life Science*

*Hamilton, Ontario*

## AWARDS/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

*#PoweredByTensorflow2.0 Challenge Winner (Devpost)*

*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, Python, Go, React.js, C++, AWS/Azure
- **Interests:** hardware; sleeping; hiking; economics; traveling; chess; coffee; algorithmic stablecoins

[Github](#) / [Devpost](#) / [Personal Website](#)