Ashna Nirula

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EDUCATION

Milliken Mills High School   Markham, ON
Expected IB Diploma   *2021-2025*

EXPERIENCE

Scientific Writer   Jan 2025-Present
Trove Biosciences   *Toronto, ON*
With Dr Tarika, writing a technical scientific article about opportunities in CRISPR agricultural products

Data Contributor   May 2024-July 2024
PhageBase   *Stanford University*
Contributed to the largest database of phage electron micrographs, synthesizing 50+ scientific papers of bacteriophage research

SKILLS

Hard Skills: Python, HTML/CSS, Figma, CAD, Benchling
Soft Skills: Technical writing, Communication
Interests: Sustainable design, Systems engineering, Climatetech, math

MEDIA

Spoken about foodtech & sustainability:
- ➔ [a panel](#) at the Change Leadership Conference in May 2023
- ➔ [MC of the Planet Tech stage](#) at WebSummit, the world's largest tech conference in November 2022
- ➔ [Future of the Climate Panel](#) at Microsoft HQ with The Knowledge Society (TKS) in June 2022

PROJECTS

Yeast Plasmid Design - making milk without the cow | [Article](#)   Jan 2024-Mar 2024

I replicated a plasmid DNA design that allows yeast cells to biomanufacture milk proteins without a cow alongside a research article about its system design

TheMondayMag.Com - celebrating everyday mundane magic | [Website](#)   August 2024

TheMondayMag is a seasonal mixed media magazine celebrating the magic in the everyday mundane rather than curated cultivated fragments of real experience.

Project Manager - CAE Consulting Challenge | [Deck](#)   March 2022

As Project manager for a month-long sprint with Canadian Aviation Electronics (CAE) at The Knowledge Society, I led a team in a community consulting project to diversify the largest global pilot training company with digital twin technology.

Computer Vision TensorFlow Model - detecting crop disease | [Github](#) December 2021

Because of the significant economic loss of agricultural diseases, I built a CNN to classify images using drone data of late-blight affected plants with a detection accuracy of 93%.

Underwater Farming prototype - a new food method | [Video](#)   April 2021

A replica of Nemo's Garden, the world's first underwater farm, I designed a prototype to grow food underwater more sustainably using hydroponics and hardware in my fish tank.