
Skills

Software Engineering

JavaScript + React (CRA, Next.js, Material-UI), Python, TensorFlow, JAX, OCaml, Ruby (Rails).

Written/Verbal Communication

Written technical articles with 3500+ views. Spoke at [Future of AI](#) Conference.

**Projects +
Experience**

Student Fellow @ X, the moonshot factory

July 2022

Selected for a 2-week immersive experience at X. Prototyped and pitched a new moonshot solving outdoor air pollution to senior X leadership. Achieved 25% reduction in concentration of 2.5-micron or smaller particles without any filters.

Raw Audio Music Generation

Spring 2021-Fall 2021

Trained a Vector-Quantized Variational Autoencoder on raw audio, using latent representations to classify short audio samples.

Engineering Intern @ Talk Social (now Camp Social)

Summer 2021

Worked with React and Rails. Proposed and built features pre-MVP, including room recording for streamlined user testing and a codebase-level state management refactor.

Intellear

Spring-Summer 2020

An AI-powered ear training tool built to help musicians practice melody playback.

Education

University of Cambridge / Computer Science

Selwyn College | October 2022 - Present

The Woodlands Secondary School / Enhanced Learning Program (ELP)

September 2018 - June 2022

Silver Crest Award winner, Co-President of DECA Woodlands, Treasurer of Prefects.

The Knowledge Society / Activator

September 2019 - June 2021

Summer Programs

Canadian Mathematical Society Math Camp (Invitational) 2020

Quantum Cryptography School for Young Students (QCSYS, Invitational) 2021

Awards

2023 [Polaris Fellow](#) (sponsored by Entrepreneur First)

2021 Canadian Mathematical Olympiad Qualifier (Top 50 in Canada)

2022 Canadian Computing Competition Honour Roll, top 2% nationally

2022 [HackX 3rd place + best technical skill](#) (for [Project Headlights](#))