

Lucas Coster

Looking to use my software, problem solving skills to assist a technology team in finding solutions to cutting edge problems.

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PROJECTS

Ovarian Cancer Early Detection — Capstone Project

September 2023 - April 2024

Completed a full Machine Learning model and application for the prediction and early warning of ovarian cancer. Built off a National Cancer Institute (NCI) Dataset and tested until it was over 90% accurate. Used a variety of ML models and practices, gained experience designing the full stack of an application.

3D Model Hand — DAIR Team Member

September 2021 - April 2022

Worked with a team to develop an AI model that created 3D hand meshes mimicking a human hand in real time. Worked with Python using Tensorflow library creating neural networks and gaining experience with auto-regressive language models. Created a paper and presented it at the Canadian University AI summit (CUCAI).

32 Bit CPU — Course Project

January 2023 - May 2023

Built a fully working 32-bit processing unit in Quartus using the Verilog language. Fully equipped with an ALU, control unit and datapath connections. Allows assembly language instructions to be run and stored into a virtual RAM.

EXPERIENCE

Briza, Toronto — Software Developer

May 2023- September 2023

Developed throughout the full stack of a typescript API interface. Worked on pressing company issues, bugs and feature improvements. Gained knowledge in fast paced agile development and functional programming

QMIND, Kingston — Design Team Member

September 2021 - Present

Worked as a member of the Queens QMIND design team. Worked with Python using Tensorflow library creating neural networks and gaining experience with auto-regressive language models.

EDUCATION

Queen's University, Kingston Ontario — Fourth Year

September 2020 - Present

Enrolled in a Bachelor of Applied Science with honours, specializing in Computer Engineering, projected to graduate in 2024. Dean's Honor list in all years with a cumulative GPA above 3.5.

SKILLS

Python, TypeScript, C++,
Assembly Language, HTML

Coding and Testing AI models

Parsing and Organizing Data

Computer Algorithms

Object Oriented Programming

Developing with GIT and Agile

Software Testing

API coding and Cloud
Computing

Team Environments

Collaboration

Full Stack Development

Functional Programming

Data Preprocessing

Code Review

Software Development
Lifecycle

AWARDS & ACHIEVEMENTS

Capstone 1st place - 2024

Academic All-Star - 2021 -
2023

Dean's Honor List - 2020 - 2023

Bronze Cross - 2019

EXTRA-CURRICULARS

Queens Varsity Athlete -
Ultimate Frisbee Captain
Canadian Champion

Club Ultimate Team in Toronto

Snowboard Instructor