Nabil NY Mansour

Computer Science Student | Toronto, ON

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Education

Ryerson University Toronto ON 2019 - 2024 (expected)

- Computer Science Co-op (BSc). Honours: **Dean's list**. CGPA: **3.97**/4.33.

Experience

Research Assistant/Developer Toronto ON, Ryerson University **GitHub Link**

May 2021 - August 2021

- **Developed an** auto-marking program in **LISP** that runs student programs and grades them automatically while also reporting any problems and handling any raised errors in their programs.
- Redesigned and modified **CPS 305** (Data Structures) labs by following the instructions of the first drafts of the labs and providing solutions for them as **supervised** by Professor Marcus Santos.

Teaching Assistant Toronto ON, Ryerson University

Sep 2021 – Present

- Course taught:
  - Fall: **CPS 305 (Data structures)** in **LISP**.
  - Winter: **CPS 506 (Comparative Programming Languages)** in **SmallTalk, Elixir, Haskell, Rust**.
- Administered weekly tutorials for students that thoroughly explained the requirements of the respective lab and assisted them when necessary.
- Read and critiqued students' code and provided guidance for writing more efficient and readable code by discussing with them good standards and practices.
- Graded labs, midterms, and final exams of around 300 students.
- Participated in weekly meetings with course staff to discuss improvements to the course and dynamically change the course if needed.

Skills

LANGUAGES C, C++, C#, JavaScript/TypeScript, SQL, HTML, HTMLCanvas, CSS, Python, Java, LISP

TOOLS AND LIBRARIES React, Express, Node, MongoDB, Git, Linux bash, Unity Game Engine, OpenGL, Raspberry PI

Projects

Linear Algebra Calculator – TypeScript, React **Web App Link** | **GitHub Link**

- Made a react app that allows for the calculation of linear algebra operations applied to two matrices that the user places.
- Designed the web app such that it is responsive to the phone of the user and accommodates accordingly.
- Wrote the logic for the linear algebra operations following a previous similar project made in C++.
- More features will be added like more operations and general UI/UX improvements.

Poly Plotter – TypeScript, React, Canvas **Web App Link** | **GitHub Link**

- Made a react app that allows for the rendering of polynomials on a graph.
- Utilized my knowledge with OpenGL to learn HTML canvas that permitted me to make the rendering for polynomials.
- The web app is inspired by the Graphing Calculator Desmos.
- More features will be added like the ability to render sin operations and overall performance enhancements.