

# HANZ NATHAN PO

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## PROJECTS

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### Albumify - Automated Album Covers for Spotify Playlists - Hack the North Project

*React.js, JavaScript, CSS, Chakra UI, FastAPI, Python*

Sept. 2023

- Developed the user interface and frontend logic for Albumify, a web application aimed at automatic album cover generation for Spotify playlists, using React, JavaScript, and Chakra UI, including Spotify API integration.
- Collaborated with a multidisciplinary team of four to bring Albumify from concept to reality, from flowcharts and wireframes, to a Figma design, then a working prototype, while using tools such as Git and GitHub.

### Skills Canada Coding Competition - 1st in Ontario

*Java, Maven*

May. 2023

- Competed against representatives from 19 school boards across Ontario to create CRUD program in one day.
- Utilized Java to read and write to a database containing recipe information, display recipes in an accessible format, filter recipes based on dietary restrictions, and calculate ingredients based on provided servings.

### Exploring Factors in Clean Energy Adoption Worldwide - STEM Fellowship Big Data Challenge

*Python, Matplotlib, Pandas, Scikit-learn*

Nov. 2021 – Feb. 2022

- Analyzed the correlation between economic factors such as GDP, Human Development Index scores (HDI) against how much of a country's energy comes from emission-free and renewable sources using regression models.
- Utilized Pandas to import and parse large datasets, observed patterns using Scikit-learn's regression functions, then visualized interesting findings through Matplotlib & Geopandas (world maps, scatter plots, line graphs).

## EXTRACURRICULARS

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### Computer Science Club - Co-founder and President

May. 2023 – Present

- Led and organized regular club meetings, fostering a collaborative learning environment with workshops on various computer science-related topics including web development, tools such as Git, and contest preparation.
- Promoted enrichment opportunities such as hackathons, competitive programming, capture the flag events, and robotics competitions in order to encourage hands-on experiences among members.

### Model United Nations Club - President

Sep. 2022 – Present

- Facilitated training of approximately 30 club members in preparation for conferences, covering debate skills, Model UN rules of procedure, and resolution writing, for conferences at McGill University, University of Toronto, and more.
- Secured over \$3000 in funding through sponsorships and fundraisers, making conferences more accessible.

## EXPERIENCE

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### Student Intern - Leadership Department

Oct. 2022 – Jun. 2023

*Toronto Catholic District School Board | Co-op*

*Toronto, ON*

- Designed promotional material for board-wide conferences, leadership camps, and other events, including posters, shirts, videos, and animations with tools such as Canva, Illustrator, and Premiere Pro.
- Analyzed data regarding student involvement and participation in 31 high schools across Toronto.

## EDUCATION

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### Francis Libermann Catholic High School

Toronto, ON

*98 Top 6 Average | Ontario Secondary School Diploma (OSSD) | Expected Graduation Jun. 2024*

*Sep. 2020 – Present*

- STEM Program - One of 52 students selected from 250+ applicants
- Honour Roll (2021, 2022, 2023)
- Finalist at school science fair, bronze medal at Toronto Science Fair

## SKILLS

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**Languages:** English (Native), Hokkien, Mandarin, Tagalog, French (A2)

**Programming Languages:** JavaScript, Python, C# (for Unity engine), Java, HTML, CSS

**Tools:** Git, Github, Visual Studio Code, Eclipse, Jupyter Notebook, Unity 3D, Vite, Node.js

**Libraries:** React, Express, Pandas, NumPy, Flask, Matplotlib, Scikit-learn, Tkinter