Nathan Gagné
SOFTWARE DEVELOPER

Profile

Dean's Honour List Graduate in Computer Science. I have recently returned from Japan where I fulfilled my dream to live and work abroad, all the while improving my adeptness in their language. Able to communicate in many languages, my proficiency allows me to connect with people from diverse cultures, which is an invaluable asset in today's marketplace. My love for learning natural languages led me to discover a love for programming languages. I believe that in both domains, building upon syntactic structures, vocabulary, and knowledge of context leads to making astute connections when being introduced to new ideas. This makes learning more efficient and enables creative solutions. Both share the common goal of enabling communication and problem-solving, which are among my key skills.

Education

Bachelor of Science - Computer Science, University of Manitoba

SEPTEMBER 2018 - JUNE 2022

- Graduated on the Dean's Honour List (3.54 GPA)

Sample of completed courses:

- Software Engineering (A+)
- Data Structures and Algorithms (A+)
- Machine Learning (A+)
- Professional Practice in Computer Science (A)
- Databases Concepts and Usage (A)
- Object Orientation (A)
- Introduction to Artificial Intelligence (A)

International Baccalaureate (IB), Collège Louis-Riel

SEPTEMBER 2016 - JUNE 2018

- Completed the International Baccalaureate diploma program.

Learning Experiences in Development

In my third-year Operating Systems course, I was assigned the task of creating a multi-process environment in C where programs could communicate with each other using an outside intermediary called a 'pipe'. I had learned the theory behind it, but implementing it proved to be challenging. I did some research on my own and learned how to inspect simultaneous processes using a debugger. I was able to glean some insight on what was happening, but I was still observing unexpected behavior so I reached out to my professor by email. We had a back and forth to identify the issue and I was able to compete the assignment and submit an excellent solution.

In the Software Engineering course that I took in my final semester of university, we were placed in teams and told to create an android application of our choice as a term project, with an emphasis on agile development workflow. I took charge of the database implementation. I first implemented a version of SQLite, but it quickly became apparent that while this approach could be very powerful in the right context, it could not properly communicate with the other layers of our app. I did research to find a database that would be more appropriate for the scope of the project, and settled on HSQLDB. This proved to be an ideal pivot and the remainder of the project proceeded smoothly. I gained experience writing a Java application in Android Studio, parsed and imported movie data from IMDB using a Python script, set up all of the necessary database connections, and helped my teammates succeed.

Contact

Beaconsfield, QC
Canada
+1-431-557-3151
nathangagne.dev@gmail.com

Links

Nathan Gagné on LinkedIn

My Github: github.com/nogs573

Try my games: nogs573.itch.io

Top areas

Game Dev (C#/C++)

Python

Github Experience

Communication

Ability to learn quickly

Tech stack

- Python
- NodeJS
- React
- WebXR
- SQL
- C++
- C#
- C
- Java
- OpenGL
- JavaScript
- HTML/CSS
- Linux
- Android Studio
- VS Code

Languages

1st line - Speaking ability
2nd line - Writing ability

English

French

Japanese

Chinese

Employment History

Software Developer, Miralupa Inc., Montréal, Canada

JULY 2023 - PRESENT

- Contract software development for a commercial WebXR project.
- In charge of the software architecture design and implementation.
- Taking on some project management responsibilities.
- Conducted market research and created easy-to-read documentation.

Assistant Language Teacher (ALT), JET Programme, Takasaki, Japan

AUGUST 2022 - MARCH 2023

- Pursued this job to get my foot in the door in Japan and improve my Japanese.
- Led English classes for students (6-12 yrs. old).
- Demonstrated an ability to adapt on the fly and persevere in a dynamic work environment.

Data Entry, Health Canada, Winnipeg, Canada

MARCH 2021 - SEPTEMBER 2021

- Remote summer employment at Health Canada.
- Built candidate files to facilitate the hiring of medical professionals during the pandemic.
- My ability to be efficient, take on new responsibilities, and type quickly made me a valuable team member.

Tour Guide, Royal Canadian Mint, Winnipeg, Canada

APRIL 2019 - SEPTEMBER 2019

- Gave 45-minute tours of the facility to groups of up to 30 international visitors.
- Performed duties seamlessly in English and French.
- Learned to be a proud ambassador for the company I work for.

Other Achievements

Winner of Manitoba Japanese Speech Contest - 2020

MARCH 2020

While taking the Introduction to Japanese course during the 2019-2020 school year in university, my professor mentioned that the annual Manitoba Japanese Speech Contest would be held soon, and I jumped at the opportunity to push myself and demonstrate what I had learned. I spent a month perfecting and practicing a three-minute speech in Japanese about the traditional performance art of *rakugo*. I performed it at the University of Winnipeg and took first prize. The national competition against the winners from other provinces were supposed to take place in Toronto, but was held online due to the pandemic. This experience encouraged me to pursue additional language acquisition more seriously.

Model United Nations Conference, New York City

MARCH 2018

In my senior year of high school, my IB History teacher offered a select group of students and myself the opportunity to participate in the National High School Model United Nations Conference (NHSMUN). I researched and wrote position papers concerning gun control and renewable energy. We traveled to New York City as a group and spent four days at the New York Hilton Midtown Hotel deliberating these issues in a caucus setting. I met students from all around the world and visited a large metropolis for the first time. My group partner and I distinguished ourselves among our peers and were invited to speak at the closing ceremony. I prepared a brief speech and performed it in front of around a thousand attendees. This was a formative experience for my world view and redoubled the values I hold of open-mindedness and respect for all people.