

# Maximus Niu

Software Developer and Computer Engineer

## CONTACT

(519) 781-6213



m22niu@uwaterloo.ca



<https://maxniu.com>



<https://www.linkedin.com/in/Max-N/>



<https://github.com/maxx-niu>



## EDUCATION

Sept 2019 - Present

3<sup>rd</sup> Year Computer Engineering,  
University of Waterloo

### Notable Courses:

Real-time Operating Systems  
Systems Programming/Concurrency  
Data Structures and Algorithms  
Computer Networks  
Compilers  
Databases

## KEY SKILLS

### Programming Languages:

C/C++  
HTML/CSS/JavaScript  
Python  
SQL  
Java

### Frameworks and Technologies:

React  
AWS (DynamoDB, API Gateway,  
Lambda, S3)  
NodeJS  
Angular  
Bootstrap  
WordPress  
Git

### Software:

UiPath  
Keap  
Adobe Suite (Photoshop, Premiere,  
XD, Illustrator)  
Unreal Engine 4 Blueprints

## PROFESSIONAL EXPERIENCE

Jan – Apr 2022

### Full-Stack Developer | My First Montessori School – Brampton, ON

- Spearheaded the implementation of a proprietary, WordPress based E-learning platform to significantly enhance the remote learning experience, increasing teaching satisfaction by more than **86%**
- Implemented a CRM automation system with **Keap** that monitors and controls the notification and sending of promotional materials to leads, reducing time spent on this by more than **70%** compared to manual entry
- Organized meetings regularly with teachers and other staff members to gather crucial feedback and give updates on the development of the E-learning platform

Sept – Dec 2020

### Full-Stack Developer | Syntu Software – Waterloo, ON

- Played key role in the design and building of a web app that allows users to upload and store image and video evidence in legal contexts while **ensuring 100% compliance** with confidentiality laws using **AWS Services** (DynamoDB, S3, Lambda)
- Developed RESTful APIs with **AWS API Gateway** that only allows authenticated users to interact with relevant confidential legal data
- **Liaised proactively** with both front and back-end developers by arranging routinely scheduled meetings

Jan - May 2020

### Software Developer | The Co-operators – Guelph, ON

- Improved markedly the efficiency of policy creation by more than **35%** by creating a web-based automation platform using **UiPath**
- Created and performed regression test cases reliably for an insurance web app and **generated accurate bug reports** to senior developers

## PERSONAL PROJECTS

- Created a functioning web app that fetches and displays forecast data given a city and country using **React** and **OpenWeatherMap API**
- Developing a personal portfolio website using **React** and **Framer Motion** React library
- Designed and created a survival, round based first-person shooter game with **Unreal Engine 4 Blueprints**

## ACADEMIC HIGHLIGHTS

- Contributed greatly to the development of a functioning **real-time operating system in C** which includes a memory allocator, multitasking kernel with message passing capabilities and pre-emptive priority scheduling and real-time support with earliest deadline first scheduling
- Applied systems concurrency and multithreaded programming concepts in a UNIX based environment to create a **multithreaded web crawler in C** that concatenated PNG images together
- Demonstrated thorough understanding of data structure and algorithm concepts, analysis, and implementation, with **C++**