

# Xinyu Chen

nick.chenbca@gmail.com / chenx387@mcmaster.ca • (613) 276 4687 • 1380 Pebble Road, Ottawa, ON, K1V 0K2

## EDUCATION

### CARLETON UNIVERSITY

*Bachelor of Engineering in Software*

Ottawa, ON  
Completed  
April 2021

**Awards:** Dean's Honor List (2018-2019 % 2020-2021 Academic year); Gordon Robertson Scholarship (2018-2019 Academic year); Carleton University Entrance Scholarship (2016-2017 Academic year)

**GPA:** 3.6/4.0 cumulative GPA 9.7/12.0 (B+) overall; 4.0/4.0 cumulative GPA 11.0/12.0 (A) in last two years

**Coursework:** Web development, Software Validation, Software Requirements, Probability and Statistics, Database Management, Numerical Methods, Software Development, Software Architecture & Design, OO programming

### MCMASTER UNIVERSITY

*Master of Engineering in System & Technology*

Hamilton, ON  
Completed  
August 2022

**GPA:** 4.0/4.0 cumulative GPA 11.0/12.0 (A)

**Coursework:** Data mining, Machine learning, Artificial Intelligence, Internet of Things (IOT), Internet of Things System, Multivariate Statistics Method for Big Data Analysis, Unity developing for AR and VR program,

## SKILLS

- **Programming Languages:** Java, Python, C, C#, Perl, SQL, HTML, JavaScript, CSS, PHP
- **Software Skills:** OOP/OOD, Unit Testing, Machine Learning, Network Programming, Software Design Pattern, asp.net framework, Node.js, VOIP, SIP, SOAPUI
- **Software Tools:** Eclipse, VS Code, VS Studio, HBuilderX, IntelliJ, Git Bash, MySQL,
- **Frameworks:** Spring MVC, Spring REST, Spring Boot, jQuery, Vue.js, Scikit-learn, Numpy

## PROFESSIONAL EXPERIENCE

### RIBBON COMMUNICATION

*Technical Support Engineering Technical Analyst*

Ottawa, ON  
2022.9 – Today

- Prime investigations provide timely feedback as to the status of reported issues along with guidance for problem and defect resolution within responsiveness guidelines.
- Provide telephone, electronic, and on-site technical support assisting the Emergency Recovery (ER) group with product outage recovery and root-cause analysis on a flexible schedule as needed.
- Work with all business functions within RIBBON to drive resolution and closure of customer issues and business requirements balancing software quality with timely delivery of fixes.
- Set up lab configurations and call flows to reproduce and troubleshoot issues in RIBBON's labs and customer networks.

## PROJECT

### BUILDING INTERNET OF THINGS (IOT) BASED INDOOR VISITOR MANAGEMENT SYSTEM FOR PANDEMIC (IVMSP) (Carleton University, Capstone Project)

Ottawa, ON  
2020.9 – 2021.4

**Technologies Used:** Web Service, Machine Learning, Cloud Computing, Mobile App development, data management, Internet of Things, SQL

- Extracted the data from the database and utilized machine learning techniques to evaluate the explosive level of the potential COVID-19 carriers
- Implemented different web interfaces with distinct functions through Asp.net core framework
- Provided the relational database, MySQL, for stakeholders to update patient's information and generated the connection to web interface

### IMPLEMENTING A PUZZLE VERSION OF POPULAR GAMES PLANTS VS ZOMBIES (Carleton University, Third Year Software Programming Project)

Ottawa, ON  
2018.9 -2018.12

**Technologies Used:** Java OO programming, MVC design pattern, XML coding, UML class diagram

- Participated the whole game design as a team leader and implemented the game's algorithm part through Java
- Constructed UML class diagram and UML sequence diagram to explore and demonstrate the relationship between packages
- Generated Junit testcases for all models to verify the software code and help the non-technical users easily visualize results