

Tony Cao

☎ +14379715421 | ✉ caol41@mcmaster.ca | 🔗 linkedin.com/in/longvietcao | 🐙 github.com/LongCao00

HIGHLIGHTS OF QUALIFICATION

- Excellent analytical, troubleshooting, and problem-solving abilities gained through course, lab work, personal and group projects.
- Demonstrated enthusiasm and strong collaboration when working with teams dedicated to streamlining processes and efficiently resolving project issues.
- Strong project management skills, including organization, time management, and follow-up.
- Proficient written and verbal communication skills developed while working as a Tutor.
- Multi-tasking and comfortable working independently and in a team

EDUCATION

George Brown College

Toronto, ON, Canada

Advanced Diploma in Computer Programming and Analysis (GPA 3.3/4.0)

Sep. 2019 – June 2022

- **Relevant courses:** Parallel Programming, Network Security, Software Security, Real-time Systems, Neutral Networks and Deep Learning, Software Architecture, Data Structures and Algorithms, Artificial Intelligence, etc.

McMaster University

Hamilton, ON, Canada

Bachelor of Technology in Software Engineering Technology Co-op (GPA 3.7/4.0)

Sep. 2022 – Present

- **Relevant courses:** Full Stack Development, Machine Learning, Cyber Security, Capstone Project, DevOps, Mobile Application Development, Web Application Development, Agile Software/Open Source Development,, etc.

PROJECTS

Portfolio - longcao2000 | *React, JavaScript, JSX, HTML/CSS*

- Developed a portfolio website to showcase personal projects, skills, and resume/CV.
- Included animations with images, descriptions, and links to enhance user experience.
- Implemented a project gallery with contact form and link to connect with clients.

Chat Application | *Node.js, Express.js, Socket.io, HTML/CSS, JavaScript, MongoDB*

- Created a real-time chat application, incorporating private and group messages, user authentication, dynamic UI, and MongoDB database.
- Contained console log to track user connection/disconnection, session middleware to manage user sessions, and logout functionality

Pneumonia detection using CNN | *Python, Numpy, Matplotlib, Tensorflow*

- Designed a Deep Learning algorithm using **CNN** (Convolutional Neural Network) to automatically detect and diagnose pneumonia from chest X-ray images.
- Evaluated the models based on accuracy, precision, recall, F1 score to identify the most effective models through comparative analysis.
- Examined the ethical implications of deploying AI in medical diagnostics and discussed future direction from implementing such systems in clinical settings

Fuel Tracker | *Python, GoogleSQL Database, Google Maps API, Fuel Price API*

- Built a program to calculate user's estimated gasoline expenses based on the distance, their car's fuel efficiency, and the overall cost of petrol in many units.
- Details of the application's functionality are as follows:
 - * The system retrieves information from the database when the user put their vehicle data in the program.
 - * The system returns ETA depending on the distance between departure and destination.
 - * The system allows users to edit gas efficiency, price, and select measurement types for distance

EXPERIENCE

Minami Toronto – Ajisen Ramen

Toronto – Vaughan, ON, Canada

Kitchen Service

Oct. 2021 – Aug. 2022

- Demonstrated the ability to work independently while being an adaptable team player by helping co-workers during rush hours and peak times.
- Aided the managers in analyzing and developing creative and sustainable alternatives to incorporate to the restaurant, such as seeking new members, providing insights for future improvements, etc.
- Collaborated with co-workers to produce some of the restaurant's most popular menu options.
- Exemplified attention to detail through food prepping, kitchen cleaning, and dishwashing.

Woodbridge College

Vaughan, ON, Canada

Tutor

2018 – 2019

- Effectively delivered Math and English concepts to students from grade 9 to 12.
- Documented individual reports to monitor student progress and improvements.
- Developed action plans and worksheets based on student and school academic goals.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, JavaScript, HTML/CSS, C#, PHP

Frameworks: Angular, React, Node.js, JavaSpring, Express.js

Libraries: Panda, Numpy, Pytorch, Matplotlib

Technologies: MongoDB, PostgreSQL, MySQL

AWARDS

2018 (Woodbridge College): Grade 12 Advanced Functions - 97% mark

Vaughan, ON, Canada

Long Viet Cao

Software Engineering Student, Level V

caol41@mcmaster.ca

linkedin.com/in/longvietcao

longcao2000.netlify.app

github.com/LongCao00

August 14, 2024

[Name of the Hiring Manager]

Carfax - Software Development

100 Kellogg Ln Suite 301, London, ON

Dear Hiring Manager,

With a passion for improving both infrastructure and people's lives through engineering innovations, **Carfax** caught my eye as a leading Canadian financial service company committed to being a catalyst for a sustainable and resilient society. Please accept the attached resume as an application for the position of **Software Development Intern (4 months)** for **Carfax**, posted on the McMaster Co-op website. I am currently enrolled in level 5 of the five-year **Software Engineering Technology Co-op program at McMaster University** and am looking to secure an eight-month co-op work opportunity for Fall 2024. I would like to supplement my education with industry/corporate experience, while simultaneously helping **Carfax** to meet and exceed its goals.

My education at McMaster University has been a balanced mix of theory, labs, and project experiences. For example, I collaborated in a group of 4 to explore the application of Convolutional Neural Network in the automated detection of diagnosis of pneumonia from chest X-ray images and its influences to the clinical settings. This project helped me strengthen my working knowledge of medical standards and protocols, machine learning and neural networks. In addition, I was able to gain interpersonal experiences, ability to work independently and in a team, and documentation skills. I had an opportunity to take everything I have learnt in McMaster to understand the work of **Software Development Intern** does daily.

During my experience working as a Minami Toronto's and Ajisen Ramen's member, I developed a variety of worthwhile skills, including teamwork, communication, adaptability, and creativity. I earned the responsibility of mentoring new employees to enhance their kitchen skills within 3 months and gain excellent experience in time management and working well under pressure, as I simultaneously cleaned 1000+ kitchen equipment & utensils, and prep 100+ ingredients for the chefs to cook. Working in restaurants requires ability to pay great attention to details, which I demonstrated by preparing tools and ingredients in many specific ways for the chefs to cook and plate certain dishes. Not only that, I was tasked to clean and organizing the stations in the kitchen as it is significantly important in the restaurant industry.

My previous work experiences and accomplishments are strong indicators of my dedication to Engineering, discipline, and ability to adapt. I am confident that my combined education and work experience will make me an asset to the Department at the **Carfax**. Please contact me by phone at **(437) 971-5421** or by email at caol41@mcmaster.ca to arrange an interview at your earliest convenience. Thank you for your time and consideration and I look forward to your response.

Kind regards,

Long Viet Cao