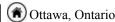
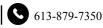
# John Nguyen









#### **EDUCATION**

# Carleton University, Ottawa

September 2019 – May 2024

# **Bachelor of Computer Science (Honours)**

- Achieved A+ in Discrete Structure, Web Applications, Computer System Security, and Distributed OS
- Proficient in multiple programming languages (Python, Java, C, C++, JavaScript, HTML), with confidence and experience in database management

## **APPLIED PROJECTS**

# **Static HTML Portfolio (Personal Project)**

September 2024

- Developing a static HTML portfolio website hosted on GitHub Pages to showcase projects, professional experience, and personal background
- Customizing a free HTML/CSS template to implement responsive design and interactive features, enhancing user experience with minimal modifications
- Integrating project details, skills, and contact information into a clean, structured layout for professional visibility

## Sudoku Game/Solver (Personal Project)

August 2024

- Developed a Python-based game with Graphical User Interface using TKinter library
- Employed an advanced backtracking algorithm combined with real-life Sudoku penciling techniques to instantly solve any Sudoku board

#### OASIS Pro (Health Product) Simulator (School Group Project)

*April* 2022

- Led group of four to create an interactive application in C++ using Qt framework
- Replicated product behavior with responsive buttons, accurately simulating backend logic and responses

## **Online Store Web Application (School project)**

December 2021

- Developed front-end and back-end using Node.js server and MongoDB database
- Developed user-account functionality, designed with REST APIs

# PROFESSIONAL EXPERIENCE

## BlackBerry QNX

*May* 2022 – *Dec* 2022

## **Command Line Tools (Co-op/Internship)**

- Focused on Linux OS, Bash scripting, Python scripting, and C programming
- Tested compatibility of over 300 GNU commands and their flags in BlackBerry's QNX OS
- Enhanced and added five features to **front-end** and **back-end** of software usage tracking tool using HTML, Python, JavaScript scripting as base code
- Conducted extensive Python automation scripting, utilizing Pytest to automatically check status of over 40 QNX targets using the Paramiko SSH library
- Performed bug testing on 40 'verification' **JIRA tickets** to ensure bug fixes work correctly
- Responsible for resolving over 20 JIRA bug tickets submitted by other testers and BlackBerry's customers, utilizing advanced debugging tools such as GDB and PDB
- Developed Python log parser to extract and convert data from over 250,000 test logs on internal report server database into easily readable format

#### **SKILLS**

Languages: Python, Java, C, C++, BASH, Shell, HTML, CSS, JavaScript, MatLab, Lisp, SQL

Frameworks: Node.js, Qt

Tools: Pytest, TKinter, GDB/PDB, Visual Studio Code, Git, Dr Racket, SQLite, RESTful API, Linux, Windows OS, Oracle VM VirtualBox