# Geoffrey Nguyen

PASSION FOR HUMAN-TECHNOLOGY INTERACTION · ASPIRING ENGINEER

*6187 Brookside Lane, Ottawa, K1C 2K6, Canada*

☐ (+1) 613-914-7769 | ✉ geoffrey.nguyen9@gmail.com | ⌂ https://gnguyen.io/ | ⌨ nougat-rey | in geoffreynguyen77

## Summary

Currently a nursing clerk at the Laurier Manor long-term-care home in Ottawa during the COVID-19 pandemic. I have a passion for helping people and I enjoy seeing the impact of my work and effort in this endeavour. As an aspiring engineer, I love tinkering and devising solutions to challenging tasks, while learning new technologies and tools to better equip myself in these pursuits.

Skills: Python (proficient), Java (prior experience), C/C++ (prior experience), Git (proficient)

## Work Experience

### Extendicare                                                                                           *Ottawa, Canada*
NURSING CLERK                                                                                           *Sept. 2020 - Present*
- Managed medical devices for the facility including non-contact thermometers, aspirators, blood pressure machines, finger-pulse oximeters, oxygen concentrator and enteral feeding pumps
- Conducted preventative maintenance checks on all medical devices in the facility
- Managed, ordered and supplied facility with PPE, nursing supplies and incontinence products

### ISED Canada                                                                                          *Ottawa, Canada*
SPECTRUM ENGINEER (CO-OP)                                                                       *Sept. 2017 - Aug. 2018*
- Developed Python WSDB Testing Application to ensure WSDBs perform as expected when interacting with Whitespace devices
- Worked with XFdtd 3D EM Simulation Software and CAD models of 5G devices to determine EM field strengths as they pertain to Health Canada's Safety Code 6 human exposure limits

### RCMP                                                                                                 *Ottawa, Canada*
COMPUTER ENGINEER (CO-OP)                                                                       *Jan. 2017 - Sept. 2017*
- Developed an application (Python & C ver.) that uses SHA3 to verify the authenticity of a file through its hash ensuring evidence for an investigation has not been tampered with
- Parsed and reverse engineered decrypted local storage database from a messaging application using python and selective SQL queries to gain insight on a target of an investigation's communications

## Projects

### Wallspace Start-Up (Pre-dev)
SOFTWARE DEVELOPER                                                                             *Apr. 2019 - Sept. 2020*
- Developed a distributed advertising platform using Python Flask backend, AWS cloud hosting, & ReactJS frontend
- Created a Python web scraper that extracts business listings contact info to form a base of business contacts

### Smart sensor-based sleep therapy using biofeedback (Java)
SYSC 4907 - ENGINEERING PROJECT                                                            *Sept. 2018 - Apr. 2019*
- Created a system that focuses on improving sleep quality through temperature & humidity regulation, detection of sleep phases from heart rate and control of surrounding light and music
- Integrated smartwatch sensor API into system, set up SQL persistent data storage, & set up graphical data display on android application

### Forearm rehabilitation system
SYSC 3203 - BIOELECTRONICS                                                                    *Sept. 2016 - Dec. 2016*
- Created a rehabilitation system for those who've lost movement in their arm that takes the EMG signal produced by the forearm as the input of a computer game to train their forearm in gradually regaining mobility

## Education

### Carleton University                                                                                  *Ottawa, Canada*
B. ENG., BIOMEDICAL & ELECTRICAL                                                               *Sept. 2014 - Apr. 2019*
- Dean's Honor List (10.92/12 CGPA)
- Course Highlights: Foundations of Imperative Programming (C/C++), Object-Oriented Software Development (Java), Digital Signal Processing, Comm. Theory, Microprocessor Systems, Operating Systems