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# Nicholas Kwong

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## Summary of Qualifications

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**Languages:** C, Racket, Python, JavaScript, HTML, CSS, jQuery

**Tools:** Foundation, Kivy, TkInter, PyGame, LaTeX, Echo Nest API, Edamam API

**Strong communication skills** from youth leader experience

**Consistent at meeting strict deadlines** through effective time management skills

## Projects

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### Personal Website

- Used HTML, CSS and Foundation to host a personal website containing notes, side projects and resume

### Music by Mood – Waterloo Tech Retreat Hackathon

- Analyzed and sorted user's music library with EchoNest API according to various song characteristics such as loudness and rhythm
- Developed Python script to move analyzed music files to its corresponding directory
- Utilized TkInter to create a clean and responsive user interface

### Recipe Finder

- Used Python and Edamam API to return recipes according to user inputted ingredients
- Developed the initial UI with Kivy along with a team member

### Python Knowledge Quiz

- Programmed a quiz with Python and Pygame that tests the user's knowledge of Python
- Implemented graphical and audio feedback to increase user interactivity

## Activities

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### Programmer – FIRST Robotics, Team 4001

- Developed state machines in LabVIEW for autonomous robot movement
- Collaborated with other programmers to ensure that all states were functional and cohesive

### AWANA Day Camp Activity Leader – Scarborough Chinese Alliance Church, Scarborough, ON

- Organized activities for AWANA day camp program attendees
- Coordinated with other volunteers to foster an engaging environment for participants ranging from JK – Grade 6
- Developed communication skills through coordinating events with team members

### Youth Camp Leader – Quebec Chibougamau Short Term Missions, Chibougamau, QC

- Planned and prepared day camp activities for Cree children to participate in
- Interacted with Cree children in an enthusiastic and interactive manner
- Regulated activities to ensure a safe environment for camp participants

## Contact

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<https://github.com/kwngnic>

<https://nicholaskwong.com>

<https://linkedin.com/in/kwongn>

## Education

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### University of Waterloo

2015 – 2020

Candidate for Bachelor of  
Computer Science Honours Co-op

## Awards

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Recipient of President's Scholarship

2015 FIRST Robotics Industrial  
Design Award

2015 FIRST Robotics Regional  
Finalist