
Nicholas Kwong

Summary of Qualifications

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

Tools: Foundation, Bootstrap, Kivy, 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

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 create organized directories for songs
- 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

Personal Website

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

Activities

Programmer – FIRST Robotics, Team 4001

Sept. 2014 – June 2015

- Developed state machines in LabVIEW for autonomous robot movement
- Collaborated with other programmers to ensure that tasks were properly assigned

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

Sept. 2011 – June 2013

- 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

Sept. 2012 – Aug. 2012

- 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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Education

University of Waterloo

2015 – 2020

Candidate for Bachelor of
Computer Science Honours Co-op

Awards

Recipient of President's Scholarship

2015 FIRST Robotics Industrial
Design Award

2015 FIRST Robotics Regional
Finalist