

# TONY WANG

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Computer Engineering | Web Development | Mobile Development | Graphic Design  
Creative and innovative thinker with strong interests in human-computer interaction and artificial intelligence  
Outstanding team player with extensive background in software development and web design  
Excellent ability to learn and adapt to new skills, knowledge and environments proficiently and quickly

## SKILLS

### SOFTWARE DEVELOPMENT

Java, Android, Python, C/ C++, R, Javascript  
ReactJS, AngularJS, jQuery, nodeJS, express, fabric, webapp2, flask  
mongoDB, postgresql, ndb, slackbot, kikbot, socket.io, OpenCV  
git, svn, JIRA, VS, VHDL

### COMPUTER AIDED DESIGN

Graphic Design via SAI/Photoshop/Illustrator/Clip Studio Paint, Photo Editing via Lightroom/Photoshop,  
3D Modelling via Autodesk Maya, Music/Sound Production via FL Studio, Audition,  
Video Production via Adobe Premiere Pro/Sony Vegas Pro

## EXPERIENCE

### CREATOR DEVELOPER

Personal Project  
Apr 2016 - Present

### PROJECT CALLIOPE RESEARCH PHASE

The goal is to build an emotional AI that simulates 5 basic senses of human's and incorporates NLP through neural network and artificial brain trained on *Nengo*  
Connects fundamental English language and sensational feedback data through neural network in order to comprehend English  
Conducting tests and experiments on the deep learning library Deeplearning4j (DL4J)

### WEB DEVELOPER

Waterloo, Ontario  
Sep 2016 – Dec 2016

### KIK INTERACTIVE INC.

Delivered key upgrades and maintenance while working with 2 project managers and 1 designer on both front and backend of Kik's Bot platform and [dev.kik.com](http://dev.kik.com)  
Performed impactful structural changes with Google Cloud Platform, AngularJS and flask  
Completed significant features on Kik's official Bot ([Botsworth](http://Botsworth)) through highly effective communication

### MARKETING LEAD PHOTOGRAPHY & VIDEOGRAPHY CONSULTANT

Waterloo, Ontario  
Sep 2016 - Present

### MIDNIGHT SUN SOLAR RAYCE CAR TEAM UNIVERSITY OF WATERLOO

Solely designed, coded and maintaining the entire official team website: [uwmidsun.com](http://uwmidsun.com)  
Hosted 4 web development tutorials to over 20 students on topics varying from html/css/js, to node.js, react.js, single page app design and implementation

### INNOVATION ENGINEER

Toronto, Ontario  
Jan 2016 – Apr 2016

### CIBC LIVE LABS @MaRS

Prototyped and demonstrated new, innovative digital banking products ranging from mobile apps, web apps to slack bots in an agile team of 11  
Adopted Microsoft Cognitive Service (Project Oxford) for emotion recognition and facial identification to enhance banking center experience and performance  
Produced professional level videography projects for CIBC and Bitmaker on ProtoHack

### SCRUM MASTER DEVELOPER | DESIGNER

London, Ontario  
Mar 2015 - Apr 2015

### "THE EVIL HANGMAN" GAME DESIGN GROUP

Collaborated with 2 members to build a game in Java from scratch and meet launch date (3 weeks)  
Created all visual assets (Photoshop), user interface interactions (Java GUI), animations, with user experience in mind

### FOUNDER

Shenzhen, China  
Dec 2012 - Jul 2013

### SHENZHEN INSTITUTE OF TECHNOLOGY ENGLISH TUTOR ORGANIZATION

Founded a non-profit English tutoring program on campus for over 200 students  
Hired 6 other part time English tutors to meet demand

## EDUCATION

### CANDIDATE

Waterloo, Ontario  
Expected Jun 2020

### B.A.Sc., COMPUTER ENGINEERING UNIVERSITY OF WATERLOO

President Scholarship, with Admission average 93%

### STUDENT

Shenzhen, China  
Sep 2012 – Feb 2014

### GRAPHIC DESIGN, ANIMATION DESIGN SHENZHEN INSTITUTE OF TECHNOLOGY

Creative Artist of "Archfans" Ancient Architecture Photography Contest  
Honorary Student and Outstanding Leader of Student Union of Semester 2012 - 2013