

# TONY WANG

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Computer Engineering | Web Development | Mobile Development | Graphic Design

Strong interests in human-computer interaction, VR / AR technologies, ML, and artificial neural networks

Advanced knowledge on implementing Agile methods in a large-scale, distributed project with extensive team size

Education background in software and embedded development and graphic design

## SKILLS

### SOFTWARE DEVELOPMENT

+ Python, C, C++, Java, Android, Unity, R, Javascript, Groovy  
+ ReactJS, AngularJS, WebGL, Three.js, jQuery, nodeJS, Express, Fabric, webapp2, flask  
+ mongoDB, postgresql, ndb, SlackBot, KikBot, socket.io, OpenCV  
+ ARM assembly, git, svn, perforce, JIRA, VS, VHDL, AWS, Redis, GCS, Jenkins

### COMPUTER AIDED DESIGN

+ Graphic Design via SAI, Photoshop, Illustrator, Clip Studio Paint  
+ Photo Editing via Lightroom, Photoshop  
+ 3D Modelling via Maya, Fusion 360, Music & Sound Production via FL Studio, Audition  
+ Video Production via Premiere Pro, After Effect, Sony Vegas Pro

## EXPERIENCE

### SOFTWARE DEVELOPER

C++ | WebGL | Three.js  
ReactJS | AWS | Redis  
Jenkins | Groovy | Perforce  
May 2017 – Aug 2017

### AUTODESK CANADA CO

[www.autodesk.com/products/fusion-360](http://www.autodesk.com/products/fusion-360)

+ Contributed in front and backend to enable the initial release of Fusion 360 Browser Access a complete mechanical cad design tool that is delivered entirely in the browser  
+ Worked on improvements to the user interface and user experience in a large team of 30, as well as the automation process and support for the development operations teams  
+ Built an Admin Dashboard used for management for the development operations team

### FULL STACK WEB DEVELOPER

Python | ndb | KikBot  
GCS | Fabric | Express  
webapp2 | flask | AngularJS  
Sep 2016 – Dec 2016

### KIK INTERACTIVE INC.

[bots.kik.com](http://bots.kik.com)

+ Delivered key upgrades and constant maintenance impacting millions of users while working with PM, TM and 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 with project manager and UX designer

### INNOVATION ENGINEER

ReactJS | Java | Android  
SlackBot | Postgresql | mongoDB  
Photoshop | Premiere  
Jan 2016 – Apr 2016

### CIBC LIVE LABS @MaRS

[cibc.live](http://cibc.live)

+ Prototyped and demonstrated new, innovative digital banking products ranging from mobile apps, web apps to slack bots in an agile team of 11  
+ Adopted emotion recognition and facial identification combined with real time location tracking to enhance a digital banking center's experience and performance  
+ Produced promotional videography projects for CIBC on project demonstrations and Bitmaker on ProtoHack

### MARKETING LEAD CREATIVE DIRECTOR

HTML | CSS | Javascript  
Sep 2016 - Present

### MIDNIGHT SUN SOLAR RAYCE CAR TEAM

[uwmidsun.com](http://uwmidsun.com)

+ 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

### SCRUM MASTER GRAPHIC DESIGNER

Photoshop | Illustrator | CSP | Java  
Mar 2015 - Apr 2015

### "THE EVIL HANGMAN" GAME DESIGN GROUP

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

## EDUCATION

### CANDIDATE

Digital | Analog Circuits  
Operating System | Embedded System  
Expected Jun 2020

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

+ President Scholarship, with Admission average 93%

### STUDENT

3D Modeling | UX Design  
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