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
Education background in software and embedded development and graphic design

SKILLS

SOFTWARE DEVELOPMENT

+ Python, Java, Android, C, C++, 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

+ 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

+ 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*
+ Performed impactful structural changes with Google Cloud Platform, AngularJS and flask
+ Completed significant features on Kik's official Bot (*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

+ 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

+ Solely designed, coded and maintaining the entire official team website: 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 Circutis
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