

Weichen Oiu



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w3ichen.github.io



LinkedIn/weichen-q



Github/w3ichen

University of Alberta	Education
Computer Engineering, BSc Co-op	Class of 2023
Grade Point Average	3.4 / 4.0
Completed Academic Terms	5 of 8
Completed Co-op Work Terms	1 of 5
Availability Starting Jan 2021	8 months

SKILLS

Self – Starter Tech Savvv **Problem Solver** Self – Learner Creative Responsible Active listener Teamwork

TECHNICAL SKILLS

DESIGN	CREATIVE		PROGRAMMING				
SolidWorks	Photography	Autodesk Maya	Python	C ++	Linux	TensorFlow	Java
Unity	Photoshop Lightroom	Premiere Pro	MatLab Assembly	SQL Git	HTML/CSS Arduino	JavaScript Flask	Django

RELEVANT EXPERIENCE

UNIVERSITY OF ALBERTA | Simulation Designer | Work

June 2020 – Present

- Published 3 comprehensive documentation manuals on how to use Javascript's JSXGraph. Glowscript's Visual Python. and Python's Bokeh libraries after extensive research (https:/engcourses-uofa.ca/interactive-elements-manual/)
- Converted old Mechanical and Civil engineering interactive educational examples to Javascript and Python, with an improvement to latency from seconds to milliseconds
- Web administrator for Faculty of Engineering course's WordPress website (https://engcourses-uofa.ca/)
- o Filmed and edited 110 engineering lab videos for 11 different courses in preparation for online course delivery with a group of 4 in 2 months

WEB DEVELOPER | Project | https://w3ichen.github.io | https://tkd.pvthonanywhere.com

Nov. 2019

- Designed and programmed personal website entirely from scratch to host creative works in art, Autodesk Maya, Solidworks 3D design, photography, and videography. As well as, coding projects that are comprised mainly of web APIs, Flask and Django, and Machine Learning projects that I learned online
- o Designed and programmed taekwondo club's website on Django framework with fully functional Admin GUI to modify content; actively used by club to organize announcements, events, forms, and photos

FUTURE CREATORS | Project Lead Club

Dec. 2019 – Present

- o Developed a project kit on Machine Learning in Unity and a Django social media site with posting, commenting, and liking functionalities as a Project Lead
- A student group that teaches grades 7 to 12 students the basics of coding, Arduino, and 3D modeling

HACKATHONS

- o HackED Beta 2019 Programmed a variation of Advanced Encryption System in a 24-hour hackathon with a team of 5
- HackED 2020 Web scraped and analyzed public medical data to determine if the patient will die from cancer

PUBLICATIONS

Engcourses Manuals

Aug. 2020

O Published 3 comprehensive documentation manuals to Faculty of Engineering's courses website for use by Professors and Students to program interactive educational examples. The 3 libraries covered in detail are Javascript's JSXGraph, Glowscript's Visual Python, and Python's Bokeh. Where JSXGraph is used for 2D examples, VPython for 3D examples, and Bokeh deployed on Heroku for examples requiring Python libraries. (https:/engcourses-uofa.ca/interactive-elements-manual/)

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EXTRACURRICULAR + CLUBS

EARLS KITCHEN + BAR | Food Expeditor | Work

Aug. 2018 - June 2019

- o Maintained order, clarified customer requests, and corrected mistakes by communicating to the Sous-Chef and Manager, while working closely with kitchen staff and servers
- o Organized dishes according to table, while checking food for correctness and modifications
- o Fast-paced, teamwork and communication-heavy environment with up to 100+ reservations a night
- o Worked a maximum of 20 hours/week, often going overtime and called in on unscheduled days

SWIM COACH | Strathcona High School | Volunteer

Sept. 2018 – Present

o Coached a lane of 15 swimmers ranging from beginners to intermediates to win 30+ years of city championships

UNIVERSITY OF ALBERTA TAEKWONDO CLUB | Social Media Coordinator | YT: @T1tkdClub

Sept. 2019 - Present

o Social Media Exec tasked with managing and posting to the club's Instagram and YouTube channel, and with promotion

UNIVERSITY OF ALBERTA MEDIA TEAM | FB: @UASUevents

Dec. 2018 - Present

- o Captured photos and video of campus events for promotion and advertising as a Senior volunteer with Student's Union
- o Welcomed new students to campus as a Week of Welcome (WOW) and New Student Orientation Volunteer

STRATHCONA HIGH MEDIA TEAM | YT:@StrathconaHighSchool

Sept.2017 – June 2018

- o Spearheaded promotional swim videos, shown at the athletic banquet, from concept to production. Directed and filmed 20 swimmers, scheduled interviews, contacted editors and scanned old yearbook photos
- o Pioneered first ever year in review video as the primary video editor after consulting with teachers
- o Operated livestream switchboard and video cameras during large school assemblies of 1500 people

VOLUNTEERING

- o Volunteered at numerous city festivals in positions that interacted with children and the general public
 - o Festivals: Edmonton International Fringe Festival, Heritage Festival, Ice on Whyte, Taste of Edmonton and more
- Volunteered with University's Spring Triathlon as a race marshal and swim lap counter in 2016 and 2017
- Fundraised money for Scona Initiative's charity event by door-to-door donations and bottle drives from 2016 to 2018

CERTIFICATIONS

o Solidworks Associate – Mechanical Design Solidworks – Dassault Systemes

o Class 5 GDL Driver's License Government of Alberta

o English, Mandarin, Basic French Languages

 Standard First Aid + CPR + AED Apex Training Solutions

Alberta Construction Safety Association Construction Safety Training Alberta Construction Safety Association

WHMIS Certified

AWARDS + SCHOLARSHIPS

 Jason Lang Scholarship GPA > 3.2 University of Alberta (2019)

o Academic Excellence Scholarship University of Alberta (2018)

Top 25 AP students o AP Scholarship University of Alberta (2018)

100 + Volunteer Hours Strathcona High School (2018) Major Service Award

o National AP Scholar Average score > 4/5 College Board (2018)

o Duke of Edinburgh Bronze

o Gold + Silver + Bronze Athletic Award

o Honours with Distinction 90% + average

Dave Mutch Construction + Woodwork Award

Duke of Edinburgh International Award Foundation (2017) Strathcona High School (2018)

Strathcona High School + McKernan School

McKernan School (2015)