



Engineering Co-op Program
University of Alberta



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Weichen Qiu

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 Savvy
Self – Learner	Problem Solver
Creative	Responsible
Active listener	Teamwork

TECHNICAL SKILLS

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

RELEVANT EXPERIENCE

UNIVERSITY OF ALBERTA | Simulation Designer | Work

June 2019 – Present

- Developed online course delivery materials and online lab simulations for transition to virtual semester
- Programmed interactive online simulations to be embedded into class notes using Python's Bokeh and Visual Python, and prepared a comprehensive PDF document on how to use both libraries after extensive research
- Improved latency of old simulations from seconds to milliseconds
- Filmed and edited instructional engineering lab videos with a group of 4

PERSONAL WEBSITE | Project | <https://w3ichen.github.io>

Nov. 2019

- Programmed website from scratch using HTML, CSS, and JavaScript to showcase creative and coding projects
- All projects are self-taught through YouTube videos, online documentation, and Stack Overflow
- TensorFlow Natural Language Processing: auto-generated Harry Potter text using LSTM layers
- TensorFlow Convolutional Network: classified images from an image API into classes using Convolutional layers
- JavaScript API: given an artist's name, returns songs from similar artists using various music APIs *(more on website)*

FUTURE CREATORS | Club

Dec. 2019 – Present

- Project lead with responsibilities to develop project curriculum in Jupyter notebooks and present the content to students
- Student group that teaches grades 7 to 12 students the basics of coding, Arduino, and 3D modeling

HACKATHONS

- 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

AWARDS + SCHOLARSHIPS

- Jason Lang Scholarship | GPA > 3.2 *University of Alberta (2019)*
- Academic Excellence Scholarship *University of Alberta (2018)*
- AP Scholarship | Top 25 AP students *University of Alberta (2018)*
- Major Service Award | 100 + Volunteer Hours *Strathcona High School (2018)*
- National AP Scholar | Average score > 4/5 *College Board (2018)*
- Duke of Edinburgh Bronze *Duke of Edinburgh International Award Foundation (2017)*
- Gold + Silver + Bronze Athletic Award *Strathcona High School (2018)*
- Honours with Distinction | 90% + average *Strathcona High School + McKernan School*
- Dave Mutch Construction + Woodwork Award *McKernan School (2015)*

EXTRACURRICULAR + CLUBS

EARLS KITCHEN + BAR | Food Expeditor | Work

Aug. 2018 – June 2019

- Maintained order, clarified customer requests, and corrected mistakes by communicating to the Sous-Chef and Manager, while working closely with kitchen staff and servers
- Fast-paced, teamwork and communication-heavy environment with up to 100+ reservations a night
- Organized dishes according to table, while checking food for correctness and modifications
- Assisted co-workers with their duties: packed Skip-The-Dishes orders and greeted delivery drivers for shift manager, ran clean dishes for servers, and washed dishes in dishwasher's absence
- Worked a max of 20 hours/week, often going overtime and called in on unscheduled days

SWIM COACH | Strathcona High School | Volunteer

Sept. 2018 – Present

- 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

- Head of club's media team and managed the club's YouTube channel by posting videos that I edited and filmed

UNIVERSITY OF ALBERTA MEDIA TEAM | FB: @UASUevents

Dec. 2018 – Present

- Captured photos and video of campus events for promotion and advertising
- 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

- 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
- Pioneered first ever year in review video as the primary video editor after consulting with teachers
- Operated livestream switchboard and video cameras during large school assemblies of 1500 people

VOLUNTEERING

2015 – 2018

- Volunteered at numerous city festivals in positions that interacted with children and the general public
- *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

Class 5 GDL Driver's License
English, Mandarin, Basic French
Standard First Aid + CPR + AED
Construction Safety Training
WHMIS Certified

Government of Alberta
Languages
Apex Training Solutions
Alberta Construction Safety Association
Alberta Construction Safety Association