Nick Wang

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http://nickwang.net

Education

Honours B. Eng., Mechanical Engineering, McGill University
CGPA 3.92/4.00 | 2013-2017

- Derek Amy Memorial Scholarship for good academic standing and significant contributions to the educational process beyond the classroom (Fall 2016)
- Brodeur-Drummond Scholarship for high academic standing in the Faculty of Engineering (Winter 2015)
- Dean's Honour list for remaining in the top 10% of students in the Faculty of Engineering

Non-Graduating Exchange Student, National University of Singapore
GPA 4.70/5.00 | Fall 2016

Ontario Secondary and IB Diploma, Bayview Secondary School | 2009-2013

Skills

Engineering
Solidworks (CAD), ANSYS Mechanical (FEA), Abaqus (FEA)

Scientific Programming
Mathematica, MATLAB, NumPy, SciPy, matplotlib, GROMACS (molecular dynamics simulations)

Web Development
Django, SQL, AWS deploy, HTML, CSS, Javascript,

General Programming
Python, C, Javascript, MATLAB, Bash

Experience

Tutor, Mango Tutors Canada | 2017 - Current

- Provided one-on-one tutoring service for Chinese students for the speaking portion of the International English Language Testing System (IELTS)

***Student Researcher*, Pomès Lab at SickKids Centre for Research and Learning**
2015

- Used GROMACS to perform molecular dynamics simulations of elastin-like peptides
- Used python packages like NumPy, SciPy and matplotlib to analyze the propensity of hydrogen bonding and the equilibrium end-to-end distance of different mutations of an elastin-like peptide

***Teacher's Assistant*, McGill's Department of Mathematics and Statistics**
2015

- Received the Tomlinson Engagement Award for Mentoring for excellent teaching of MATH262
- Instructed over 80 McGill students in weekly tutorials for "MATH262 Intermediate Calculus"
- Instructed over 60 McGill students in weekly tutorials for "MATH263 Ordinary Differential Equations"

Tutor, Engineering Peer Tutor Service
2016
- Provided one-on-one tutoring service for McGill students for "PHYS142 Electromagnetism and Optics" during set office hours

Webmaster, McGill Chinese Student Society (MCSS)
2015-2016
- Designed a seamless, responsive experience for voting contestants onto our annual Meet Me Halfway event, using Django (http://mmhw.mcss.ca)
- Maintained the main and external websites' functionality (www.mcss.ca)

Volunteer Researcher, McGill's Micro and Nanobioengineering Lab | 2014-2015
- Assisted a PhD candidate by optimizing a microfiltration device to enrich tumour cells from whole blood by designing a system with an integrated washing step

Student Ambassador, McGill University | 2014
- Led prospective international students and their families on regularly scheduled tours of campus

Service Desk Analyst, SNC-Lavalin Operations and Management | 2013 & 2014 Summer
- Provided first line IT technical support to internal staff nation-wide, analyzing, diagnosing and resolving problems with applications, systems and hardware

Student Tutor, MEDLIFE McGill | 2014-2015
- Independently prepared and taught three hour midterm and final exam review sessions for first and second year courses in the subjects of math, physics and chemistry

Student Volunteer, Mackenzie Health Richmond Hill Hospital | 2011-2015
- Assisted doctors and technicians, and provided hospitality to patients
- Processed guest concerns, answered phones, and handled hospital inquiries
- Discharged patients and delivered specimens to and from the lab and other various departments
- Packed and kept inventory of drugs

Student Tutor, Bayview Secondary School | 2009-2013
- Provided one-on-one tutoring for peers for all math and science courses during free periods and lunch