Siu Kai Cheung, Civil Engineering Student

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PROFILE	Passionate civil engineering student with internship experiences in the industry who is enthusiastic about solving unique challenges. Strive to improve the design and analysis process in the civil engineering industry with cutting-edge computer technology.		
EDUCATION			
Sep 2018 — May 2022	Bachelor of Applied Science,	University of Toronto	Toronto
	Major in Civil Engineering Minor in	a Engineering Business Artificial Intelligence Certific	ate
	Dean's Honour List		
EMPLOYMENT HISTO	RY		
May 2020 — Aug 2020	Geomechanics Assistant, Roc	science Inc.	Toronto
	 Researched and implemented novel computational methods of pile load capacity; enhancing new features in the compute engine in C++ Tested new features with verification models generated in Excel and VBA Delivered full product features underneath a 2-month timeline through effective productivity and self-learning 		
Jul 2019 — Aug 2019	Digital Assistant, Campus De Hong Kong University of Scie	-	Hong Kong
	 Modelled the HKUST campus in Autodesk Infraworks using ArcGIS data Helped to build a multidimensional model in Infraworks and Revit to manage facilities on campus Won Industry Influencer Award of Autodesk Hong Kong BIM Awards 2020 		
May 2019 — Jul 2019	Structural Design Assistant, V	V&O (Civil-Structural Engineering)	Hong Kong
	 Designed and analyzed elevator towers for schools under the Education Bureau using SAP2000 Developed an Excel sheet to calculate the design wind load on the tower Collaborated with engineers to deliver quality proposals and drawings for authority's approval 		
EXTRA-CURRICULAR	R ACTIVITIES		
Sep 2020 — Present	Design and Analysis Lead, Un Team	iversity of Toronto Seismic Design	Toronto
	 Researched and implemented new formulations for the Center of Rigidity for high-rise buildings in Python; effectively reducing the torsional effects by 35% Design and develop the code structure of the Graphical User Interface for the in-house automation program using PyQt (Python); accelerating the development process through object-oriented design Researched and performed topology optimization for high-rise structures using Altair Hypermesh; generating multiple conceptual designs 		
Sep 2020 — Present	Engineering Campus Experies	nce Officer, University of Toronto	Toronto
	 Generated events and workshops with a student-led team to build an inclusive student community Documented the event engagement and participation for future improvement Mentored students in their academic studies and mental development 		
Sep 2019 — May 2020	Construction Lead, Universit	y of Toronto Seismic Design Team	Toronto
		uilding the tower under a tight timeline	
SKILLS	Python	SAP2000	
	C++	Autodesk AutoCAD	
	Java	Altair Hypermesh	

Google Sketchup

Excel VBA