

Sky Quan

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EDUCATION

Computer Science - Bachelor of Applied Science | McMaster University 2022 - 2027

TECHNICAL SKILLS

- Python
- AI
- GenAI
- LLM
- ML
- Git
- SQL
- SDLC
- Agile
- Scrum

EXPERIENCE

DevOps Engineer (CO-OP) | Ontario Teachers' Pension Plan Sept 2024 - Sept 2025

- Co-led a **POC** for migrating **CI/CD** workflows from **Jenkins** to **GitHub Actions**. Evaluated capabilities and limitation of **actions** compared to **Jenkins**, presenting those findings and best practices to senior leadership, influencing the adoption across multiple teams.
- Rearchitected the company's **Docker** base image system within **Nexus** and **Kubernetes**, consolidating multiple redundant images around a single standardized **Ubuntu** base image, reducing maintenance complexity and improving efficiency.
- Applied **Software Development Life Cycle (SDLC)** methodologies to complete project-specific development tasks within **Agile** and **Scrum** frameworks, using **Jira** for sprint management and **Confluence** for documentation.

ML Research Assistant | McMaster University, Computing and Software May 2023 – Aug 2023

- Worked with Dr. Stephen Kelly to research evolving adaptable control policies using **gymnasium's** pendulum task and **Distributed Evolutionary Algorithms in Python (DEAP)** to conduct experiments on the partially observable pendulum task using **genetic programming**.
- Following Darwin's Law of Natural Selection, developed and **trained** multiple generation of **AI agents** to solve various tasks using **reinforcement learning**.
- Gathered, arranged, and corrected research data to create representative graphs and charts highlighting using **Pandas**, **NumPy**, and **Matplotlib**.
- My work laid the foundation for other projects now continued by Dr. Stephen Kelly's MA students (<https://creativealgorithms-cd4c88.gitlab.io/team/>)

PROJECTS & EXTRACURRICULARS

Groq-Job-App-Generator, Groq, Python, Bash, GitHub actions Feb 2025

- Developed an end-to-end **genAI** pipeline using the **Groq SDK (llama-3.3-70b)** to generate tailored resumes and 225-word cover letters from job descriptions and a structured skillset.
- **Built LLM-based utilities** to extract structured metadata (company name, job title) from job postings using concise **prompts**.

Issued To:
Sky Quan

Name:	Student ID No:	OEN:	Birth Day:	Print Date:
Sky Quan	400457373		23 March	15 January 2026

Transcript valid only if bearing the Registrar's Signature.

Beginning of Undergraduate Career Record

--- 2022 Fall ---

Program: Engineering Degree Seeking
Plan: Computer Science 1 CO-OP (Year One)
Term Honours: The McMaster University Award of Excellence

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 1JC3	Intro To Comput Thinking	3.00/3.00	A
COMPSCI 1MD3	Introduction To Programming	3.00/3.00	A+
ECON 1BB3	Introductory Macroeconomics	3.00/3.00	A+
ENGINEER 1EE0	Engineer Co-op Prm	0.00/0.00	COM
MATH 1B03	Linear Algebra 1	3.00/3.00	A
MATH 1ZA3	Engineering Mathematics I	3.00/3.00	A+
WHMIS 1A00	Intro To Health And Safety	0.00/0.00	COM

Totals

	Attm./Earned Units	GPA Units	Total Points	GPA
Term Totals	15.0/15.0	15.0	174.0	11.6

--- 2023 Winter ---

Program: Engineering Degree Seeking
Plan: Computer Science 1 CO-OP (Year One)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 1DM3	Discrete Math for Comp Sci	3.00/3.00	A
COMPSCI 1XC3	Development Basics	3.00/3.00	A-
COMPSCI 1XD3	Intro to Sfwr Using Web Prog	3.00/3.00	A
ECON 1B03	Introductory Microeconomics	3.00/3.00	B+
MATH 1ZB3	Engineering Mathematics II-A	3.00/3.00	A+

Totals

Name: Sky Quan Student ID No: 400457373 OEN: Birth Day: 23 March Print Date: 15 January 2026

Term Totals	Attm./Earned Units 15.0/15.0	GPA Units 15.0	Total Points 159.0	GPA 10.6
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Academic Standing: Good Standing
Term Honours: Deans' Honour List

--- 2023 Spring/Summer ---

Program: Engineering Degree Seeking
Plan: Computer Science 1 CO-OP (Year One)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
ENGINEER 2EC0	Engineering Work Term (Work Term Details Company: McMaster University Location: Hamilton, ON Position : Co-op Student Start Date: 2023-05-01 End Date: 2023-08-31)	0.00/0.00	COM
INNOVATE 1X03	The World of Entrepreneurship	3.00/3.00	A+

Totals

Term Totals	Attm./Earned Units 3.0/3.0	GPA Units 3.0	Total Points 36.0	GPA 12.0
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--- 2023 Fall ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 2C03	Data Struct & Algorithms	3.00/3.00	A+
COMPSCI 2GA3	Computer Architecture	3.00/3.00	A
COMPSCI 2LC3	Logical Reasoning: Comp Sci	3.00/3.00	A+
COMPSCI 2ME3	Intro To Software Development	3.00/3.00	B+
STATS 2D03	Intro To Probability	3.00/3.00	A+

Totals

Name: Sky Quan Student ID No: 400457373 OEN: Birth Day: 23 March Print Date: 15 January 2026

Term Totals	Attm./Earned Units 15.0/15.0	GPA Units 15.0	Total Points 168.0	GPA 11.2
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--- 2024 Winter ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 2AC3	Automata and Computability	3.00/3.00	B
COMPSCI 2DB3	Databases	3.00/3.00	B+
COMPSCI 2SD3	Concurrent Systems	3.00/3.00	B+
COMPSCI 2XC3	Algorithms and Software Design	3.00/3.00	A
SUSTAIN 1S03	Intro To Sustainability	3.00/3.00	A

Totals

Term Totals	Attm./Earned Units 15.0/15.0	GPA Units 15.0	Total Points 144.0	GPA 9.6
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Academic Standing: Good Standing
Term Honours: Deans' Honour List

--- 2024 Spring/Summer ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Transfer Credit/Letters of Permission

Transfer Credit from: University of Leeds

Subject/Course#	Title	Units	Grade
IARTS 1XXXX	IARTS 100 Level Unspecified	3.00	T
IARTS 1XXXX	IARTS 100 Level Unspecified	3.00	T
Transfer Totals:		6.00	

Term Enrolment

Course	Title	Attm./Earned Units	Grade
EXCHANGE 3X06	Exchange	0.00/0.00	
MUSIC 2MT3	Intro Music Therapy Practice	3.00/3.00	A

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Totals

	Attm./Earned Units	GPA Units	Total Points	GPA
Term Totals	3.0/3.0	3.0	33.0	11.0

--- 2024 Fall ---

Program:	Engineering Bach. Comp Sci
Plan:	Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
ENGINEER 2EC0	Engineering Work Term (Work Term Details Company: Ontario Teachers' Pension Plan Board Location: Toronto,ON Position : Co-op Student Start Date: 2024-09-01 End Date: 2025-08-31)	0.00/0.00	COM

Totals

	Attm./Earned Units	GPA Units	Total Points	GPA
Term Totals	0.0/0.0	0.0	0.0	0.0

--- 2025 Winter ---

Program:	Engineering Bach. Comp Sci
Plan:	Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
ENGINEER 2EC0	Engineering Work Term (Work Term Details Company: Ontario Teachers' Pension Plan Board Location: Toronto,ON Position : Co-op Student Start Date: 2024-09-01 End Date: 2025-08-31)	0.00/0.00	COM
MUSIC 2I13	Popular Music Post WW2	3.00/3.00	A+

Totals

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	Attm./Earned Units	GPA Units	Total Points	GPA
Term Totals	3.0/3.0	3.0	36.0	12.0

--- 2025 Spring/Summer ---

Program:	Engineering Bach. Comp Sci
Plan:	Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
ENGINEER 2EC0	Engineering Work Term (Work Term Details Company: Ontario Teachers' Pension Plan Board Location: Toronto, ON Position : Co-op Student Start Date: 2024-09-01 End Date: 2025-08-31)	0.00/0.00	COM

Totals

	Attm./Earned Units	GPA Units	Total Points	GPA
Term Totals	0.0/0.0	0.0	0.0	0.0

--- 2025 Fall ---

Program:	Engineering Bach. Comp Sci
Plan:	Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
EXCHANGE 3X12	Exchange	0.00/0.00	

Totals

	Attm./Earned Units	GPA Units	Total Points	GPA
Term Totals	0.0/0.0	0.0	0.0	0.0

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--- 2026 Winter ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 3AC3	Algorithms and Complexity	3.00/0.00	
COMPSCI 3DM3	Introduction to Data Mining	3.00/0.00	
COMPSCI 3N03	Computer Networks and Security	3.00/0.00	
SFWRENG 3S03	Software Testing	3.00/0.00	

End of Undergraduate Career Record

End of Student Unofficial Transcript