

Sky Quan

6476137546 | skyquan23@gmail.com | www.linkedin.com/in/sky-quan | <https://github.com/Ctrl-Sky>

EDUCATION

Computer Science - Bachelor of Applied Science | McMaster University Expected Grad 2027

TECHNICAL SKILLS

- Python
- SQL
- GenAI
- MSSQL
- Azure
- LLM
- Llama
- Groq
- Agile
- Cloud

EXPERIENCE

DevOps Engineer (CO-OP) | Ontario Teachers' Pension Plan Sept 2024 - Aug 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.
- 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.
- Increased logging visibility within **Ansible** and **Jenkins** for **Flyway** database migrations across **Snowflake**, **MSSQL**, **Azure**, and **Oracle**, improving troubleshooting and monitoring.

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.
- Gathered, arranged, and corrected research data to create representative graphs and charts highlighting using **Pandas** and **NumPy**.

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.
- **Automatically** generated tailored cover letter templates from the optimized resume results, and organized all outputs into structured directories, replicating an artifact
- Designed a **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 | 26 December 2025 |

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: 26 December 2025

| | | | | |
|-------------|---------------------------------|-------------------|-----------------------|-------------|
| Term Totals | Attm./Earned Units 15.0/15.0 | GPA Units 15.0 | Total Points 159.0 | GPA 10.6 |
|-------------|---------------------------------|-------------------|-----------------------|-------------|

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 |
|-------------|-------------------------------|------------------|----------------------|-------------|

--- 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: 26 December 2025

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

--- 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 |
|-------------|---------------------------------|-------------------|-----------------------|------------|

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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| Sky Quan | 400457373 | | 23 March | 26 December 2025 |

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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| Name: | Student ID No: | OEN: | Birth Day: | Print Date: |
| Sky Quan | 400457373 | | 23 March | 26 December 2025 |

| | | | | |
|-------------|--------------------|-----------|--------------|------|
| | 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 |

Name:
Sky Quan

Student ID No:
400457373

OEN:

Birth Day:
23 March

Print Date:
26 December 2025

--- 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