

# Sky Quan

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## EDUCATION

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

## TECHNICAL SKILLS

- Python
- Pandas
- Numpy
- Matplotlib
- ML
- GenAI
- DEAP
- GitHub
- Linux
- Excel

## 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.
- Implemented **CI/CD** pipelines using **Jenkins**, **GitHub**, **Ansible**, and **SonarQube** to automate deployment and testing processes of different **.NET** and **python** applications.

**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**.

## 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.
- Designed a **Built LLM-based utilities** to extract structured metadata (company name, job title) from job postings using concise **prompts**.

**Expense Sheet Combiner**, *Python, Bash*      *Dec 2024*

- Built a **Python automation tool** to combine and standardize transaction data from my various bank and credit card statements.
- Used **Pandas** and **NumPy** to clean, reformat, and organize expenses by month and date into a single master **Excel** sheet.