

# 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**.