

# Sky Quan

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

## EDUCATION

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

## TECHNICAL SKILLS

- Python
- Docker
- DevOps
- Kubernetes
- MySQL
- CICD
- RESTFul
- Jenkins
- Agile
- SDLC

## 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.
- Developed a **Jenkins** pipeline and **Python** script to automate internal webpage updates via a **RESTful API POST request**, streamlining manual change processes.
- 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 observable pendulum task using **machine learning**
- 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**.