Sky Quan

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EDUCATION

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

TECHNICAL SKILLS

- Linux
- LLM
- AI
- ML
- Git
- GitHub
- Python
- GenAI
- 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 **Linux 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.**