

YIXUAN QIN

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Education

McGill University, Montreal, Canada

CGPA: 3.76/4.0

Bachelor of Engineering in Software Engineering Co-op

September 2021 - May 2025 (Expected)

Marianopolis College, Montreal, Canada

Dean's List

Diplôme d'études collégiales in Health Science

September 2019 - May 2021

Skills

- **Programming Languages:** Python (advanced), Java (advanced), C# (advanced), C (intermediate)
- **Skills:** LLM, generative AI, TCP/IP, HTTP and HTTPS protocols, CI/CD, Microservices
- **Developing Tools:** Linux, SSH, Kubernetes, Kafka, Git, Docker, Gradle, Jenkins, Confluence, etc
- **Languages:** English (advanced), Chinese (advanced), Japanese (learning)
- **Certificate:** OCI 2024 Generative AI Professional Certification

Work Experiences

CN - Montreal, Canada

Software Developer Intern

May 2024 - December 2024

- As a member of the Energy Management Solution (EMS) team, contributed to the development and testing of the Horse Power Ton Analyzer (HPTA) system.
- **Redesigned and optimized the Data Extraction Tool:**
 - Deployed the tool on the cloud using Kubernetes, enhancing system scalability and stability.
 - Utilized the Flask framework, gaining practical experience with TCP/IP and HTTPS protocols.
 - Provided comprehensive technical documentation and user manuals to assist team members and users in understanding and utilizing the data extraction tool.
 - Reduced data extraction time from 1-2 hours to 5-15 minutes, improving message extraction efficiency by approximately 89%.
- **Optimized Message Simulator:** Implemented multithreading, improving message simulation sending efficiency by at least 80%.
- Participated in project microservice architecture discussions

Morgan Stanley - Montreal, Canada

Technology Analyst (Java)

May 2023 - December 2023

- Collaborated with E*Trade and Shareworks, developing and testing new features for the Shareworks application in an Agile Methodology-driven team.
- Worked closely with the product manager, proposing effective solutions and facilitating design review meetings with cross-functional teams.
- Conducted comprehensive integration and unit testing, contributed to code reviews and participated in scrubbing to enhance code quality.
- Developed and tested multi-threading for blackout jobs, improving blackout job efficiency by 78%
- Gained hands-on experience with Kafka, SAML Payload, RESTful API, Blackouts and DRIP Jobs

Projects

MAIS Hacks 2021

Oct 2021

- Designed a simple machine-learning program which guesses the winner of an ongoing game using Random Forest in a team of 3 during McGill Artificial Intelligence Society Hackathon.