

PETER DUAN

Hamilton, Ontario

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Highlights of Qualifications

- Strong ability to adapt and **learn quickly** gained by continuously seeking out new challenges and opportunities for growth.
- Excellent **teamwork** and **communication skills** acquired through previous work experience and extracurricular activities.

Technical Skills

Languages: Python, C/C++, SQL, HTML/CSS/JS, R, Java, Haskell

Frameworks: React, Qt, Flask

SDLC: Waterfall, Agile, Scrum

Tools/Services: Git, Docker, Nginx, GCP, SPLUNK, Jira, ServiceNow

Experience

Hilton Enterprise Management (Shanghai) Co., Ltd

May 2023 – Aug 2023

Information Technology Technical Support

Shanghai, China

- Provided comprehensive IT support, including hardware and software installation, troubleshooting.
- Utilized tools such as SPLUNK for device health and vulnerability monitoring. Maintained an average health score of **90+** for **over 500** user laptops, ensuring all devices meet the company's security standards.
- Optimized existing SPLUNK dashboards and resulting in an average **20%** speed increase and less resource consumption on the service side.
- Implemented automated solutions to tackle daily tasks by Power Platform.

CODIDO 🐙

April 2023 – Present

Algorithm Developer

Remote, Canada

- Utilized **Docker** to package and deploy advanced AI applications such as **Stable Diffusion XL**, MusicGen on CODIDO.
- Authored and developed multiple applications, including facial recognition by Yolov5 and converting latex snippets to SVG image, etc., achieving **370+** successful runs.
- Streamlined user interaction with cutting-edge AI applications, effectively democratizing access to advanced technology and enhancing user experience.
- Contributed to the growth of the CODIDO community by actively participating in team building and providing constructive feedback.

Projects

Artistic QR Code Generator 🐙 | Python, Stable Diffusion, ControlNet, Nodejs

October 2023

- Developed an innovative tool, the Artistic QR Code Generator, which leverages a stable diffusion model and ControlNet to generate unique and visually appealing QR codes.
- Implemented a user-friendly command-line interface, providing users with a range of customization options including art style, ControlNet parameters, etc.

QtLive2d 🐙 | C++, Live2d, Qt, OpenGL

February 2022

- Ported Live2D Cubism to Qt platform and implemented rendering Live2D models in Qt Widget applications.
- Created a custom Qt Widget with native **OpenGL**, reducing CPU resource usage by **50%** compared to solutions that use Electron.
- Utilized the **cross-platform** capabilities of Qt to extend the availability of Live2d across multiple platforms

Education

McMaster University

Ontario, Canada

Bachelor of Applied Science in Computer Science (Co-op)

September. 2021 – Present

- Cumulative GPA: **11.2/12**

Achievements

Deans' List

Winter 2023

- On Deans' Honour List from Fall 2021 to Winter 2023

The McMaster University Award of Excellence

November 2021

- Entrance Scholarship (Entering a Level 1 program in the top **10%** of Engineering Faculty).