Xianpi Duan

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Technical Skills

Languages: Python, C/C++, Java, C#, HTML/Javascript/CSS, Haskell
Technologies: Linux, Git, Google Cloud Platform, Docker, Latex
Developer Tools: VS Code, Visual Studio, Qt Creator, Eclipse, Figma
Current Learning: React.js, Elm

Projects

AI Voice Diary, MacHacks 2 | *Python, PySide6, AssemblyAI* **January 2022**

- Winner of AssemblyAI Challenge
- Journaling by voice, using AI to analyze the day's events and extract keywords.
- Wrote in Python, using PySide6 as the GUI framework. Calling AssemblyAI's API to implement Speech recognition and keyword extraction.
- Completed UI designing, software developing, and final presentation individually.

QtLive2d | *C++, Live2d, Qt, OpenGL* **April 2021**

- Ported Live2D Cubism to Qt platform from glew and glfw and implemented rendering Live2d models in Qt Widget applications
- Can be easily and flexibly added into any Qt Widget application, and support Live2d model interactive mouse events
- Use OpenGL instead of WebGL to achieve less resource consumption than similar implementations

OCREye | *C#, WPF, Google Cloud Platform, Physics* **July 2021**

- OCR software based on Google Cloud Platform
- Using WPF and XAML to create a GUI that supports scaling UI without distortion.
- Add some physics effects to program to enhance playfulness.

Education

McMaster University **Ontario, Canada**
Bachelor of Applied Science in Computer Science *September. 2021 – Present*

- Cumulative GPA: 11.6/12 (3.94/4.0) or 96.67%

Achievements

MacHacks 2 Winner **January 2022**

- Winner of AssemblyAI Challenge

The McMaster University Award of Excellence **November 2021**

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

Dr.Arthur and Anna Battista Scholarship (University) **August 2021**

- High School Scholarship

Canadian Senior Mathematics Contest **November 2019**

- Certificate of Distintion (Ranking in top 25% of contestants)

Relevant Coursework

Development Basics **Winter 2022**

- C language, Git and Bash

Introduction to Software Design Using Web Programming **Winter 2022**

- Elm, web development and software design principles

Introduction to Programming **Fall 2021**

- Python, basic data structures and algorithms

Introduction to Computational Thinking **Fall 2021**

- Haskell, different development modes and software testing methods