

David (Yong Hwei) Toon

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Currently learning relevant technologies outside of the classroom to boost my qualifications.
Feel free to contact me for any additional information.

EDUCATION

University of California, Riverside

Riverside, CA

Bachelor of Science & Master of Science in Computer Science (BS + MS Program)

Sep. 2019 – Jun. 2023

GPA: 3.74

Relevant Coursework: Intermediate Data Structures and Algorithms, Design of Operating Systems, Design and Architecture of Computer Systems, Theory of Automata and Formal Languages, Software Construction, Logic Design, Introduction to Embedded Systems, Discrete Structures
(Upcoming FALL 2021: Compiler Design, Introduction to Software Engineering)

PROJECTS

Personal Web Portfolio | *HTML, CSS*

July 2021 – Present

- First mobile responsive website to practice and improve HTML and CSS skills.
- All backgrounds are created with MSPaint.
- Regular updates to be expected.

Classic Pong | *C, Git*

March 2021

- Embedded systems hardware build (ATMega1284 microcontroller, LED matrix, Shift registers, Joystick, etc.).
- Implemented advanced ball physics (speed variation and spin).
- Implemented “AI bot” with different difficulty levels and option to replace “AI bot” with second player.
- Implemented interactive menu with game mode selection and score keeping.
- [LINK](#) to demo videos.

Quiz Application | *C++, Git*

May 2020

- Used by students to review for final exam.
- Object-oriented application using decorator, factory, and strategy design patterns.
- Customizable difficulties and modes (True/False & Multiple Choice).
- Utilization of UML Diagram to design system’s structure.

TECHNICAL SKILLS

proficiency: familiar | *learning*

Programming Languages: C/C++, Java, *JavaScript*

Web Development: HTML, CSS, *Bootstrap*

Frameworks: *React, Node.js*

Databases: *SQL*

Developer Tools: Git, VS Code, Eclipse

LANGUAGE PROFICIENCY

Native or bilingual: English, Mandarin

Minimum professional: Cantonese

Limited Working: Spanish, Malay

Elementary: Russian