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) — *Sept. 2019 – Jun. 2023*
GPA: 3.75
Relevant Coursework: Intermediate Data Structures and Algorithms, Introduction to Software Engineering, Design of Operating Systems, Compiler Design, Design and Architecture of Computer Systems, Theory of Automata and Formal Languages, Software Construction, Logic Design, Introduction to Embedded Systems, Discrete Structures

EXPERIENCE

Software Development Engineer Intern — June – Sept 2022
Amazon — *Sunnyvale, CA*
- Coming soon...

PROJECTS

Spotters (individual contributions) | *Javascript* — Sept. – Nov. 2021
- Web app that uses Spotify databases to provide specific analysis using location, date, rank, & song characteristics.
- Designed and implemented backend functions (add/update/remove) for two self-designed joined data structures.
- Designed and implemented backend analytics functions to compute and prepare data for frontend display.
- Utilized Incremental Analytics to reduce non-starting computing time of analytics functions from 33s to 4ms.

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*
Libraries/Frameworks: *React*, *Node.js*, *Express.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