Yueh-Ming Wang

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Education

Louisiana State University (LSU), Baton Rouge, Louisiana   **Expected May 2025**
Roger Hadfield Ogden Honors College
Bachelor of Science, Major in Computer Science concentration in software engineering
Honor: Taylor Opportunity Program for Students (TOPS) Recipient

Skills

- Proficient: C++, C, Python, Bash, Shell Scripting, HTML, CSS, JavaScript, Gnuplot, Figma, Scrum
- Previous Experience: Java, React Native, SQL, Unity, Godot, SFML
- Language: Bilingual in English and Mandarin Chinese. Beginner in French and Japanese
- Personal Interest: Digital Art, Clarinet, Pastry, Traveling

Experience

Undergraduate Research Intern   **May 2024 – August 2024**
Louisiana State University, Baton Rouge, LA
- Conducted individual research on integration of gem5 simulation and CXL using Ubuntu to evaluate memory performances
- Developed X86 full-system simulation in gem5, creating multi-level NUMA environments for memory latency and bandwidth analysis
- Simulated gem5 across X86, ARM, and RISC-V ISAs, executing Gapbs and SPEC 2017 benchmarks to access system performance

Projects

Thesis: Performance Analysis of CSD 3000   **August 2024 – Present**
- Currently testing the performance of CSD 3000 with different block sizes and queue depths
- Analyze the bandwidth, latency, and compression rates to measure performance impacts
- Leverage FIO benchmarks to evaluate and compare performance with regular SSD

Mini-Arcade Game in C++   **September 2023 – November 2023**
- Collaborated with a peer to develop PacMan in a team of six computer science students
- Successfully solved coding difficulties by initiating unique methods
- Mastered integrating SFML with C++ in 3 months and increased efficiency by 15%

Large Language Model for Cancer Pathology Interpretation   **August 2023 – December 2023**
- Sponsored by LSU Medical School; presented to professional medical organizations and business
- Attended professional business events to promote project
- Communicated with data provider, instructors, and sponsor; monitored project progress

Leadership, Involvement, and Organizations

Webmaster and Active Member   **May 2023 – Present**
Women in Computer Science
- Designed, developed, and updated the WiCS website with Figma and VSCode to improve usability
- Managed the WiCS LinkedIn page to engage followers and highlight club events
- Organized and planned three events in 2 months; collaborated with student organizations for events