Yueh-Ming Wang
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Summary

Collaborative computer science graduate with experience in full-stack development and computer systems research. Demonstrated ability to lead and contribute to diverse projects, including developing large language models and mobile applications. Seeking an entry-level Software Engineer position to apply technical skills.

Education

Louisiana State University (LSU), Baton Rouge, Louisiana **May 2025**

Roger Hadfield Ogden Honors College

Bachelor of Science in Computer Science, concentration in Software Engineering

Related Coursework: Operating Systems, Databases, Compilers, OOP, Software Exploitation

Skills

- **Languages**: C++, C, C#, Java, Python, Bash, Shell Script, HTML/CSS, JavaScript, TypeScript, SQL
- **Frameworks/Tools:** React Native, Next.js, Expo, Firebase, Unity, Godot, GameMaker, SFML, Gnuplot, Git, AWS, Svelte, Agile, Scrum
- **Bilingual** in Mandarin and English

Research Experience

Undergraduate Computer Systems Research Intern **May 2024 – August 2024**

Louisiana State University, Baton Rouge, LA

- Configured multi-level Non-Uniform Memory Access (NUMA) setup in gem5 to simulate a Compute Express Link (CXL) environment and evaluate memory latency and bandwidth
- Built full-system simulation for X86 in gem5 and tested them with GAPBS, SPEC 2006, and SPEC 2017 benchmarks
- Simulated system-call emulations for X86, ARM, and RISC-V architectures and debugged simulation inconsistencies

Projects

Honors Thesis: Performance Analysis of Computational Storage Device (CSD) 3000 **August 2024 – April 2025**

- Developed shell scripts to automate Flexible I/O (fio) workloads and analyze CSD 3000 compression performance
- Compared sequential vs. random read/write workloads and visualized results with Gnuplot for performance trends
- Interpreted compression effectiveness to assess real-world applicability of computational storage

Third Place Winner - SASE LSU GeauxHack 2024 **November 2024**

- Designed backend logic of a gacha app using TypeScript and Firebase in a 40-hour hackathon
- Integrated database functions to support dynamic collection and pull mechanics
- Managed GitHub repository and task coordination, enabling efficient collaboration across a 5-person team

Large Language Model for Cancer Pathology Interpretation **August 2023 – December 2023**

- Collaborated with LSU Medical School to develop a large language model for cancer pathology report analysis
- Conducted weekly meetings to coordinate deliverables, ensuring alignment with stakeholder goals
- Presented findings to medical and business professionals and co-authored a project proposal for future implementation

Leadership, Involvement, and Organizations

Webmaster and Active Member **May 2024 – Present**

Women in Computer Science (WiCS)

- Rebuilt club website with HTML/CSS, improving user engagement and increasing unique visitors by 10%
- Elevated LinkedIn engagement by 657% and member reach by 3981% through regular updates
- Planned and executed 8 events in one semester with the board, including a 200-attendee hackathon; also hosted a personal front-end/back-end workshop