

Yueh-Ming Wang

Los Angeles, CA

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EDUCATION

Louisiana State University

May 2025

Bachelor of Science in Computer Science, Software Engineering concentration

Roger Hadfield Ogden Honors College - Honors Capstone

Relevant Coursework: Object-Oriented Programming, Compiler Construction, Software Systems Development, Operating Systems, Large Language Model (LLM) Development and Deployment, Advanced Data Structures

SKILLS

- **Languages:** Java, JavaScript, Python, C++, C, HTML, CSS, Shell Scripting, SQL
- **Frameworks/Tools:** AWS, PostgreSQL, React, Svelte, Apache, Springboot, Firebase, Linux, Git
- **Communication:** Mandarin, English

EXPERIENCE

Software Engineer Research Intern

May 2024 – Aug 2024 | Baton Rouge, LA

Louisiana State University

- Simulated a Compute Express Link (CXL) environment in gem5 full-system simulation mode for x86, configuring multi-level NUMA topologies to evaluate memory latency and bandwidth behavior.
- Automated benchmarking workflows for GAPBS, SPEC2006, and SPEC2017 using Bash scripting on Ubuntu, processing ~77.6B instructions in 0.118 seconds of simulated time.
- Debugged simulation and build failures in gem5; identified performance bottlenecks, including 57.9% L2 miss rate.

PROJECTS

Honors Thesis: Performance Analysis of Computational Storage Device (CSD) 3000

Aug 2024 – Apr 2025

- Automated fio benchmarking and graphing pipeline using Bash scripting, reducing operator errors by 60%.
- Examined sequential vs. random read/write performance, isolating a 20% throughput gain for compressed vs. uncompressed data at peak settings.
- Centralized a 32-configuration compressibility sweep; identified peak throughput at 75% compressibility vs. baseline.

Third-place Winner - SASE LSU GeauxHack 2024

Nov 2024

- Built a gacha game backend in Expo and TypeScript for the iOS simulator; delivered a playable prototype in 40 hours.
- Integrated Firebase functions for dynamic collection and pull mechanisms, improving UI responses.
- Managed the GitHub repository and task coordination for a 5-engineer team, resolving 3+ merge conflicts.

Geaux Hack the Globe

Apr 2024

- Built the frontend for SkinSolutions using HTML/CSS/JavaScript; shipped an interactive website in 40 hours.
- Designed and implemented responsive UI, form logic, and backend integration.
- Led a 4-engineer team workflow; resolved Git conflicts and kept delivery on schedule.

LEADERSHIP

Webmaster

May 2024 – May 2025

Women in Computer Science (WiCS) at LSU

- Built and maintained the WiCS website using HTML/CSS/JavaScript; increased unique visitors by 10%.
- Boosted LinkedIn engagement by 657% and member reach by 3,981% via weekly content.
- Coordinated 8 events per semester with a 7-person team, including a 200-attendee hackathon across 4 institutions.
- Hosted a solo Next.js + Firebase workshop, achieving a 350% increase in member attendance and engagement.