

Jingyuan Zhu

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EDUCATION

University of Michigan, Ann Arbor, MI

Ph.D in Computer Science

Sep 2019 – Oct 2025

University of Michigan, Ann Arbor, MI

B.S.E in Computer Science (Dual Degree)

Sep 2017 – Apr 2019

Shanghai JiaoTong University, Shanghai, China

B.S.E in Electrical & Computer Engineering (Dual Degree)

Sep 2015 – Aug 2019

EXPERIENCE

Meta

Menlo Park, CA

Software Engineer Intern

May-Aug 2024

LLM Runtime Benchmark Framework

- Built a benchmark framework to measure the performance across various components of Llama’s inference runtime under different configurations (e.g. parallelism, disaggregation).
- Integrated the benchmark into Meta’s CI/CT pipeline, enabling early detection of 1 actual real-world performance regression triggered by specific code changes.
- Leveraged the benchmark framework for detailed performance analysis, identifying runtime bottlenecks instructed by theoretical analysis.

Google

Seattle, WA

Software Engineer Intern

May-Aug 2023

Critical Path Aggregation and Visualization for Chrome

- Derived and implemented a novel algorithm to aggregate critical paths for Chrome page navigation traces. Implemented a clear and informative interactive visualization using D3.
- Designed and developed a “what-if” analysis method for Chrome, offering an actionable estimation to pinpoint high-value optimization opportunities.
- Applied the aggregation on hundreds of Chrome traces, identifying speedup potential for 1,000+ tasks and aiding optimization prioritization.

University of Michigan

Ann Arbor, MI

Graduate Student Research Assistant

May 2020 - Present

Reviving Dead Links on the Web with FABLE

- Designed and built FABLE: a system automatically locate the reorganized URLs of inaccessible ones.
- Achieved great efficiency (reduced live web page crawls by 95%), with good coverage (outperformed existing solutions by 50%) and accuracy ($\geq 90\%$).

University of Michigan

Ann Arbor, MI

Graduate Student Instructor

Jan - Apr, Sep - Dec 2021

- EECS 491: Distributed Systems. Instructed lab sections and collaborated on the creation and grading of exams.

SELECTED PUBLICATIONS

Toward Better Efficiency vs. Fidelity Tradeoffs in Web Archives [IMC’25]

Sprinter: Speeding Up High-Fidelity Crawling of the Modern Web [NSDI’24]

Reviving Dead Links on the Web with FABLE [IMC’23]

Jawa: Web Archival in the Era of JavaScript [OSDI’22]

Cloud Video Transcoding Performance Characterization [IEEE IISWC’20]

SKILLS

Languages: Python, C/C++, JavaScript, Golang, SQL(MySQL)/NoSQL(MongoDB), HTML/CSS

Frameworks & Tools: Chrome Devtools Protocol, FFmpeg, LLVM, React, Docker, git, L^AT_EX, PyTorch, RDMA verbs

COURSEWORK

Web Systems, Operating Systems, Distributed Systems, Computer Networks, Databases, Compilers, Mobile App Design, Machine Learning, Systems for Machine Learning