

Jingyuan Zhu

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RESEARCH INTERESTS

My research interests are mainly in the Web. Specifically, I'm interested in studying broken links on the web and deriving different solutions to mitigate link rot over time.

EDUCATION

University of Michigan , Ann Arbor, MI	Sep 2019 – Oct 2025
<i>Ph.D</i> in Computer Science	
University of Michigan , Ann Arbor, MI	Sep 2019 – Apr 2022
<i>M.S.E</i> in Computer Science	
University of Michigan , Ann Arbor, MI	GPA: 3.9/4.0
<i>B.S.E</i> in Computer Science (Dual Degree)	Sep 2017 – Apr 2019
Shanghai JiaoTong University , Shanghai, China	GPA: 3.6/4.0
<i>B.S.E</i> in Electrical & Computer Engineering (Dual Degree)	Sep 2015 – Aug 2019

WORK EXPERIENCE

Meta	Menlo Park, CA
<i>Software Engineer Intern</i>	<i>May-Aug 2024</i>
LLM Runtime Benchmark Framework	
• Built a benchmark framework for measuring performance across various components of Llama's inference runtime.	
• Integrated this benchmark into Meta's performance testing platform, enabling the detection of an actual performance regression triggered by specific code changes.	
• Utilized the benchmark framework for detailed performance analysis. Pinpointed bottlenecks in real-world runtime instructed by theoretical analysis.	
Google	Seattle, WA
<i>Software Engineer Intern</i>	<i>May-Aug 2023</i>
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.	

PUBLICATIONS

Detecting and Diagnosing Errors in Replaying Archived Web Pages

Jingyuan Zhu, Huachen Sun, Harsha V. Madhyastha

Submitted to NSDI'26

Toward Better Efficiency vs. Fidelity Tradeoffs in Web Archives

Jingyuan Zhu, Huachen Sun, Harsha V. Madhyastha

ACM Internet Measurement Conference 2025 (IMC'25)

Sprinter: Speeding Up High-Fidelity Crawling of the Modern Web

Ayush Goel, Jingyuan Zhu, Ravi Netravali, Harsha V. Madhyastha

21st USENIX Symposium on Networked Systems Design and Implementation (NSDI'24)

Reviving Dead Links on the Web with FABLE

Jingyuan Zhu, Anish Nyayachavadi, Jiangchen Zhu, Vaspol Ruamviboonsuk, Harsha V. Madhyastha

ACM Internet Measurement Conference 2023 (IMC'23)

Making Links on Your Web Pages Last Longer Than You

Ayush Goel, Jingyuan Zhu, Harsha V. Madhyastha

HotNets 2022: Twenty-First ACM Workshop on Hot Topics in Networks (HotNets'22)

Characterizing “Permanently Dead” Links on Wikipedia

Anish Nyayachavadi, Jingyuan Zhu, Harsha V. Madhyastha

ACM Internet Measurement Conference 2022 (IMC'22)

Jawa: Web Archival in the Era of JavaScript

Ayush Goel, Jingyuan Zhu, Ravi Netrvali, Harsha V. Madhyastha

16th USENIX Symposium on Operating Systems Design and Implementation (OSDI'22)

Cloud Video Transcoding Performance Characterization

Yuhan Chen, Jingyuan Zhu, Tanvir Ahmed Khan, Baris Kasikci

2020 IEEE International Workshop/Symposium on Workload Characterization (IISWC'20)

TEACHING EXPERIENCE

University of Michigan

Graduate Student Instructor

Jan 2021 - Apr 2021, Sep 2021 - Dec 2021

- Instructed class EECS 491: Distributed Systems.
- Responsible for teaching lab section. Involved in the creation and grading of exams.

HONORS AND AWARDS

Patent (CN106175608): Intelligent stair sweeping robot and its control method and control system

Dean's Honor List. University of Michigan

Fall 2017 - Winter 2019, Every semester

Mechanical competition Champion. Shanghai JiaoTong University

Fall 2016