Wen Fan

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EDUCATION

Purdue University   West Lafayette, USA
  Major: Electrical and Computer Engineering   *Aug. 2024 – Present*
  Degree: PhD
  Advisor: Prof. Jenna DiVincenzo

University of Science and Technology of China (USTC)   Hefei, China
  Major: Computer Science and Technology   *Sept. 2018 – Jun. 2022*
  Degree: Bachelor
  GPA: 3.75/4.3

RESEARCH INTEREST

Program Verification

PUBLICATIONS

Evaluating the Ability of Large Language Models to Generate Verifiable Specifications in VeriFast [pdf]
Marilyn Rego*, <u>Wen Fan*</u>, Xin Hu, Sanya Dod, Zhaorui Ni, Danning Xie, Jenna DiVincenzo, Lin Tan. The 2nd ACM international conference on AI Foundation Models and Software Engineering (FORGE 2025)

RESEARCH EXPERIENCE & PROJECTS

Evaluating LLM on generating specifications for separation logic   Purdue University
Advisor: Prof. Jenna DiVincenzo   *Sept. 2024 – Now*

Vicious Cycles in Distributed Systems   Purdue University
Advisor: Prof. Yongle Zhang   *June. 2022 – Apr. 2023*
We investigated a type of failure in distributed systems, where an event causes a system degradation and it further causes more events. I joined half-way in this project.
- Collected some cases of those failures on Apache Jira.
- Tried implementing a static analyzer on retry pattern in distributed systems such as Hadoop.

DSLAB (Sharded and Fault Tolerant Distributed Key-Value Store)   CS505 project at Purdue University
Developed from University of Washington, DSLAB is a framework for building and debugging distributed systems for educational purposes. I did this lab with my friend and passed most of the tests.
- Implemented Primary-Backup, Paxos and Two Phase Commit protocols.
- Debugged to pass more than 90% of tests (including searching tests on corner cases).

TEACHING ASSISTANT EXPERIENCE

Mathematical Logic, USTC	*Spring 2021*
CS252 Systems Programming, Purdue University	*Fall 2022, Spring 2023, Spring 2024*
CS251 Data Structures, Purdue University	*Fall 2023*

AWARDS

Huawei Scholarship	*Nov. 2020*
Huaxia Talent Program at USTC	*June 2022*

SKILLS

Programming Languages: ~~C, C++, Java, Python, Go~~ (chatgpt)
Frameworks: ~~Django, Soot~~ (chatgpt)
Algorithms: [Leetcode](#) 100+, CS584 (Computation Complexity)
Languages: English, Chinese
Sports: Running