

# YESHENG LIANG

UC San Diego ◇ La Jolla, CA, USA

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## EDUCATION

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### Tsinghua University

*B.Eng. in Computer Science and Technology (GPA: 3.75)*

2019 – 2024

Beijing, China

### University of California, San Diego

*Master in Computer Science and Engineering*

2024 – expected 2026

La Jolla, CA, USA

## RESEARCH EXPERIENCE

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### Research Assistant

*Xtra Computing Group, National University of Singapore*

Aug. 2023 - Jan. 2024

*Advised by Prof. Bingsheng He*

- Proposed a novel method Tree-as-a-Prompt to train decision trees by interacting with language models.
- Responsible for proposing ideas, system design, and implementation.

### Research Assistant

*Storage Research Group, Tsinghua University*

Jan. 2022 – Mar. 2023

*Advised by Prof. Youyou Lu*

- Explored user-level scheduling methods in hybrid transactional/analytical processing (HTAP) systems.
- Achieved lower latency of AP while maintaining high throughput of TP.
- Responsible for system design and implementation.

### Research Assistant

*Institute of Trustworthy Networks and Systems, Tsinghua University*

Sept. 2020 – Jan. 2021

*Advised by Prof. Jiliang Wang*

- Explored indoor positioning approaches with new generations of Wi-Fi NICs capable of Fine Timing Measurement (FTM).
- Responsible for writing a program to interact with NIC drivers, retrieve FTM statistics, and perform positioning.

## SELECTED PROJECTS

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**Whiz Reader** An iOS PDF reader that provides convenient interactions for looking up words and translating documents. Garnered 35,000+ purchases on the App Store and received 600+ ratings, with an average of 4.5. [\[App Store\]](#)

**Tree Hollow** Official iOS client for an unofficial student forum of Tsinghua University. Used by more than 15,000 students from several universities. [\[App Store\]](#)

**Museum+** An iOS app utilizing AR to boost museum touring experience. Participated in the official Apple student developer contest in China. [\[Docs \(Chinese\)\]](#)

**MkDocs Blogging Plugin** An open-sourced blogging plugin for the static site generator MkDocs. Reached 6,000+ downloads per month on PyPI and got 80+ stars on GitHub. [\[GitHub\]](#)

**RISC-V CPU** A five-stage pipelined RISC-V CPU implemented with SystemVerilog, running on FPGAs. Supports RISC-V privilege stack including privileged instructions, virtual memory, exceptions, etc., and is capable of running a simple educational operating system (uCore). Receives full marks in the course. [\[GitHub\]](#)

**DBMS** A built-from-scratch database management system that supports most of the basic SQL and advanced features including indexing and table joins. [\[GitHub\]](#)

**Config Service** An online code runner platform for flexible configuration distribution. Provided and mentored by ByteDance, this is a project of the Software Engineering course (team leader, personal grade: A+). [\[GitHub\]](#)

## HONORS AND AWARDS

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- Academic Excellence Scholarship, Tsinghua University, 2023.
- Academic Improvement Scholarship, Tsinghua University, 2022.
- Social Work Excellence Scholarship, Tsinghua University, 2020.

## SKILLS

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<b>Languages</b>	C/C++, Python, Swift, Rust, Go, JavaScript, Bash, SQL, VHDL, SystemVerilog
<b>Frameworks</b>	UIKit & SwiftUI, React, Django, Flask, Gin
<b>Tools</b>	Git, L <sup>A</sup> T <sub>E</sub> X, Docker, Make, CMake, Bazel

*Last updated on **October 13, 2024***