Isaac Dan Zhao

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WORK EXPERIENCE

Stanford Artificial Intelligence Laboratory   **June 2024 – Present**
CURIS, Undergraduate Research Intern   *Stanford, CA*
- Extended the lab's existing SUQL (Structured-Unstructured Query Language) compiler to handle dynamic schematization, improved caching, and automatic generation of custom support functions, thus improving accuracy, cost, and speed. Paper pending, with intended submission date of Sept. 15. Led the unification of the lab's tools into a cohesive platform deployed on Vercel, enhancing accessibility and performance. Integrated server-side logic, APIs, and databases to support dynamic content and user interactions. Developed and maintained user interfaces using React and Next.js.

Stanford Artificial Intelligence Laboratory   **June 2023 – Sept. 2023**
CURIS, Undergraduate Research Intern   *Stanford, CA*
- Developed a grounded RAG system on scanned patient records for use in clinical settings, achieving high accuracy. In collaboration with Stanford Medicine, mentored by Prof. Monica Lam. Continued efforts into the year with the lab on SPARQL-based RAG on different domains resulted in (among other things) the SPINACH paper, under review in 2024. Preprint available here: https://arxiv.org/abs/2407.11417

The Hong Kong Polytechnic University Computer Science Department   **June 2022 – Sept. 2022**
Undergraduate Research Intern   *Kowloon, Hong Kong SAR*
- Conducted HCI research with the Computer Science department investigating the effectiveness and best practices of using VR in educational settings, mentored by Prof. Qing Li.
- Paper accepted in IEEE Transactions on Learning Technologies, and conference paper presented at ICWL 2022 SETE 2022. Access here: https://dl.acm.org/doi/10.1007/978-3-031-33023-0_19

EDUCATION

Stanford University   **Sept. 2021 - June 2025**
B.S. Computer Science, Artificial Intelligence Track, Systems Track   *Stanford, CA*
- Vice President of Stanford ACM (2022-2023). Test Coordinator Lead and Problem Writer, Stanford Math Tournament (2021- Present). Oboist (and English Horn player) in Stanford Symphony Orchestra, Stanford Philharmonia (2021 - Present).
- Selected Coursework in Systems (CS107, CS 140/212, CS 142, CS 143), Artificial Intelligence (CS 221, CS 224N, CS 224V, CS 224W, CS 228, CS 229, CS375) and Theory (CS 161, CS 265, CS 369O).

Scotch College Melbourne   **Graduated Dec. 2019**
VCE (High School Diploma)   *Melbourne, Australia*
- Attained an ATAR (Australian Tertiary Admissions Rank) score of 99.90, which represents a performance in the top 0.1% in the national exams for all university applicants. Admitted with an academic and music scholarship. Was Chess Captain, Music Vice-Captain, and Computational Linguistics Team Lead. Took a gap year in 2020 after admission to Stanford to tutor students across Australia over Zoom in mathematics, English, and chess.

SKILLS AND AWARDS

- Fluent in English and Mandarin Chinese at a native-speaker level.
- Years of development experience in Python, C++, C, Rust, and various JavaScript frameworks.
- Represented Australia in the U16 Chess Olympiad in 2017, current FIDE classical rating of 1959.
- Australian Mathematics Competition, Prize (Top 0.3%), invited to national IMO training camp.
- Australian Computational and Linguistics Olympiad (3rd Place in Nationals, and 1st Place in State).
- AmusA (Associate of Music, Australia) in Oboe performance.