

Yu Qian

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Education

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- National University of Singapore** *BS in Computer Science* *Aug 2023 – Present*
- Second Major in Mathematics, Minor in Performing Art (Dance)
 - Focus Areas: Artificial Intelligence, Parallel Computing
 - Undergraduate Teaching Assistant: for CS1101S (Programming Methodology) and CS2040S (Data Structures and Algorithms).
- University of Washington** *Student Exchange Program* *Upcoming: Sept 2025*
- Selected for the School of Computing exchange program focusing on advanced coursework.

Experience

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- Undergraduate Research Assistant** *Singapore*
National University of Singapore *Jan 2025 – Present*
- Supervised by Prof. Yao LU, focusing on mlsys research and exploring unified memory.
- Explore HRT Program Participant** *Singapore*
Hudson River Trading *May 2025*
- Selected as one of 15 participants for a two-day immersive program at HRT Singapore, attended technical talks and workshops on algorithm development and software engineering led by HRT engineers.
- Computer Vision Research Intern** *Remote*
Beijing Freedo Technology Co., Ltd. *Dec 2024 – Jan 2025*
- Developed algorithms for parameterized reconstruction of buildings using multi-view image analysis.
 - Adapted and fine-tuned advanced neural network-based contour extraction models (e.g., LCNN) for architectural applications, including custom preprocessing and parameter optimization.
- Software Engineer Intern** *Singapore, Singapore*
Computing for Voluntary Welfare Organizations *May 2024 – Aug 2024*
- Developed and maintained case management system (CMS) with React.js for responsive frontend interfaces and Golang/Ruby on Rails for robust backend services.
 - Contributed to porting and enhancing features for the Lions Befrienders Service Association (LBSA), ensuring seamless functionality and improved user experience.

Achievements

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- GIC Computing for the Community Fellowship Award** *Aug 2024*
 Awarded for successfully completing the CVWO program, contributing impactful software solutions for voluntary welfare organizations.
- Dean's List** *Jan 2024*
 Recognized for exceptional academic performance, placing among the top students in the cohort.
- Soh Bing Scholarship** *Jun 2023*
 Received this prestigious scholarship in recognition of academic excellence.

Skills

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- Programming Languages:** Python, C++, C, Java, Ruby on Rails, Golang, React.js
- Technologies:** Pytorch, PostgreSQL, Parallel Computing (OpenMP, CUDA, OpenMPI)
- Languages:** Mandarin - Native speaker, English - Full Professional Proficiency (IELTS 8.0, Jul 2023)
- Professional Development:** participant of JPMorgan Winning Woman Program (Feb 2025);
 participant of Morgan Stanley Women in Banking Event (Mar 2025)