

EDUCATION PROFILE**University of Michigan, Ann Arbor****Aug 2025 - Present**

- Master of Science in Information, major in Data Analysis, with GPA 4.000/4.000

Shanghai Jiao Tong University - Global College Institute**Sept 2022 - Present**

- Major in Electrical and Computer Engineering and Minor in Computer Science, with GPA 3.641/4.000

Cornell University**Jan - May 2025**

- Exchange program at College of Engineering, with GPA 3.850/4.000

WORK & LEADERSHIP EXPERIENCE**OpenAGI Research Foundation, Inc.****Jan - Aug 2025**

- Contributed to *Lux*, achieving state-of-the-art performance on Online-Mind2Web (**83.6**), outperforming Google Gemini CUA (69.0), OpenAI Operator (61.3), and Anthropic Claude Sonnet 4 (61.0).
- Built Python-based tooling to capture user operations and applied computer-vision methods to reproduce end-to-end workflows for training and evaluation.
- Generated operation datasets on OSWorld for terminal and Office tasks, improving data diversity.

Salesforce, Inc.**Aug - Dec 2025**

- Completed **10** user interviews and collected **100+** survey responses on AI tool usage for privacy analysis.
- Visualized usage patterns in Tableau and identified potential privacy risks from data signals and user feedback.
- Proposed multiple ideas to strengthen user data protection.

Shanghai Baosight Software Co., Ltd.**Aug - Sep 2024**

- Built short-term metro passenger-flow surge prediction models and achieved **86%** accuracy in predicting crowd surges to support operational planning.
- Analyzed station-level passenger flow data, engineered time-series features, trained binary classifiers, and iterated with ROC/AUC-driven validation.

ACADEMIC BACKGROUND**OSGym: Super-Scalable Distributed Data Engine for Generalizable Computer Agents****Jan - Dec 2025**

- Developed deep learning-based intelligent agent models and trained AI agents to perform simple operational tasks using reinforcement learning algorithms.
- Built a data generation engine to produce high-quality datasets for model training.

Online judge platform development**Jan 2024 - Present**

- Designed and implemented an evaluation environment based on Go programming language.
- Used containerization technology to isolate user code execution processes and ensure the stability of the runtime environment.
- Developed a Prometheus-based logging and monitoring module to track platform runtime status in real-time, improving system maintainability and troubleshooting efficiency.

Surgical Video Tool Segmentation & Evaluation with SAM2**Jul 2024 - Oct 2025**

- Performed instance segmentation of surgical instruments in videos using the SAM2 model, supporting medical tool tracking for surgical assistance systems.
- Evaluated segmentation performance using mIoU and Dice coefficients, and analyzed model robustness across complex surgical scenarios.
- Optimized automatic prompt generation strategies to improve automation and stability of segmentation in challenging cases.
- Co-authored the paper: *Systematic Evaluation and Guidelines for Segment Anything Model in Surgical Video Analysis*. arXiv:2501.00525. Accepted by *npj Digital Surgery* (Nature Portfolio), Oct 2025.

- Database tool development** Dec 2024
- Developed basic functionalities for database tool
 - Added multi-threading, improving efficiency by 3 times.

- Service System Modeling and Design** May 2025
- Modeling and analyzing service systems for ambulance services in NYC.

TECHNOLOGIES

- **Programming Languages:** Python, R, C/C++, Go, Matlab, SQL, Elm, SAS, HTML/CSS, JavaScript, Bash
- **Working Space:** Linux, Git, Docker, Latex, Vim, Shell, AWS, Tableau, PowerBI

CAMPUS ACTIVITIES

Teaching Assistant in SJTU - Global College

- | | |
|--|-----------------|
| • ECE4820J <i>Operating Systems</i> Course | Sept - Dec 2025 |
| • ECE2810J <i>Data Structures and Algorithms</i> Course | Sept - Dec 2024 |
| • ENGR1000J <i>Introduction to Engineering</i> Course | May - Aug 2024 |
| • ENGR1510J <i>Introduction to Computers and Programming</i> Course | Sept - Dec 2023 |
| • Design projects, hold weekly labs and recitation classes, grade assignments and exams. | |

Technical Department of Student Union in SJTU - Global College Sept 2022 - Present

President and Annual Excellent Volunteer

- Organize and host multiple workshops , with topics including Git, Bash, LaTeX, Vim, VSCode, etc.
- Maintain the SJTU - Global College's dance party mini-program.

HONORS AND SCHOLARSHIPS

- Nov 2025: *First Place in A2 Data Dive: Campaign Finance Transparency in Michigan.*
- May 2025: *Basic SAS(Statistics Analysis System) Certification.*
- Nov 2024: *Scholarship for Student Development.*
- Oct 2024: *Merit Student of SJTU.*
- July 2024: *Third Prize in the China-U.S. Young Maker Competition.*
- May 2024: *Software Copyright Registration by the National Copyright Administration of China.*
- Dec 2023: *Basic Teaching Assistant Certificate.*
- July 2023: *Annual Excellent Volunteer in UM-SJTU JI Student Union.*
- June 2023: *Best Game Design Award in ENGR1000J of UM-SJTU JI.*
- May 2023: *Honorable Mention in the Mathematical Contest in Modeling organized by COMAP.*