

RUI WANG

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EDUCATION PROFILE

University of Michigan, Ann Arbor

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

Aug 2025 - Present

Shanghai Jiao Tong University - Global College Institute

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

Sept 2022 - Present

Cornell University

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

Jan - May 2025

WORK & LEADERSHIP EXPERIENCE

OpenAGI Research Foundation, Inc.

Jan - Aug 2025

Software Engineer Intern (Agent Tooling)

United States (Remote)

- Achieved 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).
- Engineered 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.
- Paper: *OSGym: Super-Scalable Distributed Data Engine for Generalizable Computer Agents* (arXiv:2511.11672).

Salesforce, Inc.

Aug - Dec 2025

Research Intern

United States (Remote)

- Conducted **10** user interviews and analyzed **200+** survey responses on AI tool usage for privacy analysis.
- Built Tableau dashboards to visualize usage trends and translated findings into actionable privacy risk insights.

Shanghai Baosight Software Co., Ltd.

Aug - Sep 2024

Machine Learning Intern

Shanghai, China (On-site)

- Developed short-term metro passenger-flow surge prediction models across **523** stations, achieving **86%** accuracy to support operational planning and proactive crowd management.
- Analyzed station-level passenger flow data, engineered time-series features, trained binary classifiers, and iterated with ROC/AUC-driven validation.

ACADEMIC BACKGROUND

Online Judge Platform Development

Jan 2024 - Present

- GitHub: <https://github.com/joint-online-judge/JOJ3>
- Implemented a **Go-based** online judge execution and scoring system, supporting 6 programming languages.
- Implemented **container-based sandboxing** to isolate user code and improve platform reliability.
- Developed Prometheus-based logging and monitoring module to track system health in real time.

Surgical Video Tool Segmentation & Evaluation with SAM2

Jul 2024 – Oct 2025

- Performed instance segmentation of surgical instruments in videos using SAM2.
- Evaluated segmentation performance using mIoU and Dice coefficients, and analyzed model robustness across complex surgical scenarios.
- Improved automation by optimizing prompt generation for SAM2 in difficult cases.
- Paper accepted by *npj Digital Surgery* (Nature Portfolio): *Systematic Evaluation and Guidelines for Segment Anything Model in Surgical Video Analysis*. (arXiv:2501.00525)

SKILLS, ACTIVITIES & INTERESTS

- **Languages:** Python, Go, C/C++, SQL, R, Bash, HTML/CSS, JavaScript
- **Technical Tools:** Docker, Linux, Git, L^AT_EX, AWS, Tableau, Prometheus
- **Certifications:** Basic SAS Certification; Basic Teaching Assistant Certificate.
- **Activities:** Teaching Assistant at SJTU Global College (2023–2025); President of Technical Dept. in Student Union (Sept 2022–2025) — hosted workshops (Git, Bash, L^AT_EX, Vim, VSCode)
- **Honors:** 1st Place A2 Data Dive (Nov 2025); Merit Student (Oct 2024); Scholarships (Nov 2024)