

RUI WANG

(+1) 607-262-1255 | ruiallen@umich.edu | GitHub | LinkedIn

EDUCATION PROFILE

University of Michigan, Ann Arbor	Aug 2025 - Present
<ul style="list-style-type: none">Master of Science in Information; Concentration in Data Analytics. GPA: 4.000/4.000	
Shanghai Jiao Tong University - Global College Institute	Sept 2022 - Present
<ul style="list-style-type: none">Bachelor of Engineering in Electrical and Computer Engineering; Minor in Computer Science. GPA: 3.641/4.000	
Cornell University	Jan - May 2025
<ul style="list-style-type: none">Exchange program at College of Engineering. GPA: 3.850/4.000	

WORK & LEADERSHIP EXPERIENCE

OpenAGI Research Foundation, Inc.	Jan - Dec 2025
<i>Software Engineer Intern (Agent Tooling)</i>	Remote
<ul style="list-style-type: none">Achieved state-of-the-art success rate of 83.6 on Online-Mind2Web, significantly outperforming Gemini CUA (69.0), OpenAI Operator (61.3), and Claude Sonnet (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: <i>OSGym: Super-Scalable Distributed Data Engine for Generalizable Computer Agents</i> (arXiv:2511.11672).	
Salesforce, Inc.	Aug - Dec 2025
<i>Data Analyst Intern</i>	Remote
<ul style="list-style-type: none">Performed statistical analysis on survey data to isolate key factors associated with high-risk AI usage patterns.Built a risk quantification pipeline, transforming unstructured user feedback into structured risk metrics.Visualized usage data with Tableau, translating complex data patterns into strategic insights.	
Shanghai Baosight Software Co., Ltd.	Aug - Sep 2024
<i>Machine Learning Intern</i>	Shanghai, China (On-site)
<ul style="list-style-type: none">Developed short-term metro passenger-flow surge prediction models using XGBoost across 523 stations, achieving 86% accuracy to support proactive crowd management.Engineered complex time-series features and optimized model performance based on ROC-AUC.	

ACADEMIC BACKGROUND

Surgical Video Tool Segmentation & Evaluation with SAM2	Jul 2024 – Jul 2025
<ul style="list-style-type: none">Performed instance segmentation of surgical tools in videos using SAM2.Evaluated with mIoU and Dice coefficients across diverse procedures and severe occlusions.Analyzed failure cases and improved automation by optimizing prompt generation.Paper accepted by <i>npj Digital Surgery</i> (Nature Portfolio): <i>Systematic Evaluation and Guidelines for Segment Anything Model in Surgical Video Analysis</i>. (arXiv:2501.00525)	
Online Judge Platform Development	Jan 2024 - Present
<ul style="list-style-type: none">GitHub: https://github.com/joint-online-judge/JOJ3Architected a high-performance Online Judge system using Golang, supporting 6 programming languages.Implemented a job queue model to handle concurrent submissions for execution, scoring, and result feedback.Designed a secure code execution sandbox using Docker API and cgroups to enforce resource limits.Deployed Prometheus-based logging and monitoring module for real-time system health tracking.	

SKILLS, ACTIVITIES & INTERESTS

- Languages:** Python, Go, C/C++, SQL, R, Bash/Shell
- ML & Data Science:** PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, Hugging Face
- Technical Tools:** Linux, Docker, AWS, Git/GitHub Actions, Agile Development, Prometheus, Tableau, \LaTeX
- 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, \LaTeX , Vim, VSCode)
- Honors:** 1st Place A2 Data Dive (Nov 2025); Merit Student (Oct 2024); Scholarships (Nov 2024)