

## WORK EXPERIENCE

### OpenAGI Research Foundation, Inc.

Jan 2025 - Aug 2025

- Developed Python-based tools to record user operations and utilized computer vision techniques to reproduce user workflows.
- Leveraged inference-based augmentation techniques to generate operation datasets for terminal, Word, Power-Point, Excel, and video processing tasks based on the OSWorld dataset.
- Extracted keyframes from video and optimized the selection process, providing high-quality data for model training.

### Salesforce, Inc.

Aug 2025 - Dec 2025

- Designed and conducted surveys, collecting user behavior data on AI tool usage through questionnaires and user behavior logs.
- Analyzed user behavior patterns using clustering analysis and data visualization tools like Tableau, identifying factors impacting learning outcomes.
- Identified potential privacy risks in existing products based on data analysis and user feedback, proposing solutions to optimize user data protection strategies.

### Shanghai Baosight Software Co., Ltd

Aug 2024 - Sept 2024

- Analyzed passenger flow data at subway stations and extracted features for short-term passenger flow prediction using time series analysis.
- Applied binary classification models to predict short-term surges in passenger flow, optimizing model performance using metrics like ROC curves and AUC values.

## EDUCATION PROFILE

### University of Michigan, Ann Arbor

Aug 2025 - Present

- Master of Science in Information, major in Data Analysis

### Shanghai Jiao Tong University - Global College Institute

Sept 2022 - Present

- Major in Electrical and Computer Engineering and Minor in Computer Science
- **GPA:** 3.641/4.000

### Cornell University, United States

Jan 2025 - May 2025

- Exchange program at College of Engineering
- **GPA:** 3.850/4.000

## 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

## ACADEMIC BACKGROUND

### OSGym: Super-Scalable Distributed Data Engine for Generalizable Computer Agents Jan 2025 - Present

- 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, capture abnormal events, and generate visual reports, improving system maintainability and troubleshooting efficiency.

### **Surgical Video Tool Analysis Using SAM2 Model**

**Jul 2024 - Oct 2025**

- Performed instance segmentation of medical tools in surgical videos based on the SAM2 model.
- Analyzed model performance using mIoU metrics and Dice coefficients, and validated its applicability in medical equipment tracking tasks to provide technical support for surgical assistance systems.
- Optimized automatic prompt generation strategies to enhance the automation and robustness of the segmentation model in complex scenarios.

### **Systematic Evaluation and Guidelines for Segment Anything Model in Surgical Video Analysis**

**Oct 2025**

- Co-authored the paper.
- Accepted by the Nature series journal npj Digital Surgery.

### **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.

## **CAMPUS ACTIVITIES**

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### **Teaching Assistant in SJTU - Global College**

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| • ECE4820J <i>Operating Systems</i> Course   | Sept 2025 - Dec 2025 |
| • ECE2810J <i>Data Structures and Algorithms</i> Course                                  | Sept 2024 - Dec 2024 |
| • ENGR1000J <i>Introduction to Engineering</i> Course                                    | May 2024 - Aug 2024  |
| • ENGR1510J <i>Introduction to Computers and Programming</i> Course                      | Sept 2023 - 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**

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- 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.*
- Nov 2025: *First Place in A2 Data Dive: Campaign Finance Transparency in Michigan.*