

# Ching-Yun Yu

<https://chingyunyu.github.io>

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## EDUCATION

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- **University of Missouri—Columbia** Columbia, Missouri  
*Master of Science in Computer Science; GPA: 3.838* Jan 2022 – May 2024
- **National Taipei University of Technology** Taipei, Taiwan  
*Bachelor of Science in Computer Science and Information Engineering* Sep 2016 – Jun 2020

## EXPERIENCE

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- **University of Missouri—Columbia** Columbia, Missouri  
*Research Assistant* Jun 2022 – May 2023
  - **Responsibilities:** Conducted exploratory experiments on Ecological Momentary Assessment (EMA) data using machine learning and data mining methods. Developed an augmented reality-based learning system with Microsoft HoloLens 2, Magic Leap 2, Q-Track NFER, Xsens MVN, Manus Metagloves, and Ergoneers Dikablis Glasses 3.
  - **Technologies:** Used RapidMiner and Python for EMA data modeling; Unity and C# for augmented reality application development; Qt Creator, C++, Selenium, and network socket for desktop application development.
- **Sunbird Software** Taipei, Taiwan  
*Automation Test Intern* Sep 2020 – Mar 2021
  - **Responsibilities:** Developed and maintained automated test scripts for Sunbird dcTrack, a second-generation Data Center Infrastructure Management (DCIM) software. Executed automated tests as part of CI/CD processes.
  - **Technologies:** Used Robot Framework, Selenium, and Python for automation testing; GitHub for version control; Jenkins for Continuous Integration and Continuous Delivery; Mob programming for the development process.
- **Pentium Network** Taipei, Taiwan  
*Quality Assurance Contractor* Jul 2020 – Nov 2020
  - **Responsibilities:** Conducted manual testing on Marvin, a maintenance and operation platform that combines central control, automation, and governance functions in one, offering a hybrid multi-cloud integration solution.
  - **Technologies:** Tested server deployment and key connectivity on AWS, Google Cloud, Azure, Nutanix, Alibaba Cloud, Tencent Cloud, and VMware. Tested domain management on GoDaddy, CloudFlare, NS1, and DNSPod. Tested the integration of Telegram chatbots and Terraform. Performed command-line operations in the Linux terminal. Used Trello for issue and project tracking. Collaborated with cross-functional teams using Slack.
- **Chairsla Technology** Taipei, Taiwan  
*Backend Software Engineer* Jul 2019 – Jan 2020
  - **Responsibilities:** Developed and maintained a virtual pet chatbot based on the LINE communication application, including web development, database management and recovery, testing, server deployment, and data analytics.
  - **Technologies:** Used Node.js, HTML, CSS, and JQuery for development; Bitbucket for version control; MongoDB and Redis for database management; AWS S3 for database backup and recovery; AWS EC2 for server deployment.
- **Galaxy Software Services Corporation** Taipei, Taiwan  
*Software Engineer Intern* Jul 2018 – Jun 2019
  - **Responsibilities:** Developed and maintained Vital CRM, a cloud-based Customer Relationship Management system, including frontend development, backend development, database management, and unit testing.
  - **Technologies:** Used C#.NET, HTML, CSS, and JQuery for development; SQLite for database management; TortoiseSVN for version control; Jira for issue and project tracking; SCRUM for the development process.

## PUBLICATIONS

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- **Predicting Quantity of Cannabis Smoked in Daily Life: an Exploratory Study Using Machine Learning:** Drug and Alcohol Dependence, vol. 252, p. 110964, Nov. 2023, doi: 10.1016/j.drugalcdep.2023.110964.
- **Developing an Augmented Reality-Based Interactive Learning System with Real-Time Location and Motion Tracking:** International Conference on HCI, Jun. 2023, pp. 227–238. doi: 10.1007/978-3-031-34550-0\_16.
- **Reproducible Workflows for Exploring and Modeling EMA Data:** 2022 IEEE 8th International Conference on Collaboration and Internet Computing (CIC), Dec. 2022, pp. 117–124. doi: 10.1109/cic56439.2022.00026.

## SKILLS

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- **Programming:** Python, C#, C++, Node.js, SQL **Tools:** Git, AWS, Docker, Jenkins **Certification:** Linux