

Xueyuan Cao

Linkedin: <https://www.linkedin.com/in/xueyuancao/>

Github: <https://github.com/1uan-yuan>

Email : cao371@purdue.edu

Mobile : +1-765-409-2047

EDUCATION

- Purdue University** West Lafayette, IN
MSBS Computer Science program in Purdue University, with a minor in Math; GPA: 3.68 / 4.00 Aug 2020 - Now

PROFESSIONAL STUDIES & INDEPENDENT RESEARCH

- Motion Sensor Weakness Analysis** PurSec Lab, Purdue University
Research Assistant May 2023 - Now
 - Advisor:** Prof. Berkay Celik
 - Mentor:** Habiba Farrukh & Reham Mohamed Aburas, Ph.D. student
 - Analyze the weakness of Accelerometer and Gyroscope on mobile devices
 - Developed cVAE (conditional variational autoencoder) and cGAN (conditional generative adversarial network) AI models
- AR-VR Pairing Project** PurSec Lab, Purdue University
Research Assistant May 2022 - Now
 - Advisor:** Prof. Berkay Celik & Prof. Antonio Bianchi, Computer Science Department
 - Mentor:** Habiba Farrukh & Reham Mohamed Aburas, Ph.D. student
 - Coordinated communication between different AR/VR devices
 - Wrote program about the creation, transformation, and utilization of spatial anchors
 - Compared the modified hand gesture and eye gaze trajectory using Deep Learning algorithms

WORK EXPERIENCE

- Tencent AI Lab** Shenzhen, China
Researcher Internship Feb 2024 - Now
 - Mentor:** Xinting Huang, Tencent AI Lab
 - Mitigate multimodal LLM hallucination on Tencent-hunyuan

COURSE PROJECTS

- XINU Operating System** Purdue University
Independent Project Aug 2023 - Dec 2023
 - Advisor:** Prof. Pedro Fonseca, Computer Science Department
 - C based Unix Like OS programming
- Pacman** Purdue University
Independent Project Jan 2022 - May 2022
 - Advisor:** Prof. Ming Ying, Computer Science Department
 - Python based machine learning pacman game
 - GitHub Link: https://github.com/1uan-yuan/little_pac
- Bookingpedia** Purdue University
Group Project Nov 2022 - Dec 2022
 - Advisor:** Prof. Hisham Benotman, Computer Science Department
 - Used html and SQL to implement a hotel booking database system
 - GitHub Link: <https://github.com/Sophiezd/Bookingpedia>
- Unix Shell** Purdue University
Independent Project May 2022 - Aug 2022
 - Advisor:** Prof. Gustavo Rodriguez-Rivera, Computer Science Department
 - Used C++, C, Yacc, Lex programming languages to build an independent Unix shell.
 - GitHub Link: https://github.com/1uan-yuan/Unix_Shell

HONORS AND AWARDS

- Awarded Purdue CS Corporate Partners Scholarship

SKILLS SUMMARY

- Programming Languages:** Java, C++, Python, C, SQL, Unix scripting
- Purdue University TA-ship:** Data Structure (CS 25100), Python Programming (CS 17700)