Xueyuan Cao

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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
    - GitHub Link: https://github.com/1uan-yuan/auth, https://github.com/1uan-yuan/Data_Generator
- **AR-VR Pairing Project** — PurSec Lab, Purdue University
  Research Assistant — *May 2021 - May 2022*
  - **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 multimodel 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)