# Yiming Chen

GitHub: https://github.com/xuanquanchen

☎: 443-800-3439 | ✉: ym.chen.apply@outlook.com | website: https://xuanquanchen.github.io

500 W University Pkwy, Baltimore, MD, United States

## EDUCATION

**Johns Hopkins University**                                              **Baltimore, MD, United States**
- *Master of Science in Engineering Computer Science - GPA 3.8/4* 🔼          *[Expected]Aug 2024 - May 2026*
- Related Courses:
  *Machine Learning: Deep Learning / Computer Vision / Probabilistic Models of the Visual Cortex / Cognitive Artificial Intelligence / Object Oriented Software Engineering / Computer Graphics / Explainable AI Design*

**Jinan University**                                                          **Guangzhou, Guangdong, China**
- *Bachelor of Engineering in Computer Science & Technology - GPA: 88.7/100* 🔼     *Sept 2020 – Jul 2024*
- Related Courses:
  *Cryptographic Algorithms and Protocols / Digital Image Processing / Data Structures/Organic Chemistry / Discrete Mathematics / Internet Application Development / Software Engineering / Numerical Computation / Operating Systems / Machine Learning / Topics on Computer Security / Design & Analysis of Algorithms*

## PROFESSIONAL EXPERIENCE

**Group Research Project – Urolithiasis Diagnostic System**                       *Guangzhou, China*
*Software Copyright, Registration No.: 2022SR0021718*                             *Sep 2021-Mar 2022*
- Developed the front-end interface for the form-based urolithiasis diagnosis system using Vue.js.
- Use Weka to build a decision-tree-like model for urolithiasis type classification based on form

**Group Research Project – Object Detection in Extreme Weather** 🔗              *Guangzhou, China*
*Patent for Invention, Patent number: ZL202310579491.9*                          *Jul 2022- Jul 2023*
- The model was developed based on the YOLOv7 model and achieved significant accuracy improvement.
- Reinvented the filter module by improving the performance of the adaptive module, conceived and partially implemented data augmentation based on style transfer and physical constraints.

## PROJECT EXPERIENCE

**Individual Project – LinkNet34_SPP**🔘                    *Baltimore, MD, USA Nov 2024 – Dec 2024*
- Integrated an SPP module into LinkNet34, boosting Dice coefficient by 1.97 on the EndoVis 2017 dataset

**Individual Project – CupAxis3D** 🔘                       *Baltimore, MD, USA Nov 2024 – Dec 2024*
- Reconstructed a dense tabletop scene by converting RGB-D frames into point clouds with Open3D, then fused them via pairwise registration and voxel averaging
- Performed ROI segmentation and downsampling, generated axis hypotheses through random slicing and ellipse fitting, and selected inliers using a clustering algorithm

**Team Project – Sync-Trip**                               *Baltimore, MD, USA Mar 2025 – May 2025*
- Implemented multi-user real-time itinerary synchronization using Firebase with local caching
- Integrated Google Maps for location search, destination addition, route planning, and departure-time routing
- Developed a billing module featuring expense splitting, draft/archive states, user balance summary

## INTERNSHIP EXPERIENCE

**Shenzhen Fang Yuan Bao Information Technology Services Co., LTD**               *Shenzhen, China*
*Test Developer Intern*                                                           *Jul - Aug 2022*
- Taken part in the development of a game accelerator, and learned about the implementation procedure
- Constructed automated testing tools, such as automatically gaining game progression name, accelerator node IP, and port, and routing table, and then exporting to XML files
- Performed functional testing of the accelerator

## HONORS & AWARDS

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| **Second Prize** Scholarship for Outstanding Students in Jinan University | *Oct 2023* |
| **Honorable Mention**, 2023 Mathematical Contest in Modeling | *Jul 2023* |
| **Third Prize**, Wu Yufu Academic Science & Technology Innovation Competition | *Nov 2021* |
| **Silver Prize**, University & Society Group, 12th Guangdong Music Invitational Competition | *Dec 2021* |
| **Third Prize** (Guangdong Province), China National Biology Olympiad | *Jul 2019* |

## SKILLS

**Python**, **PyTorch**, **Java**, **Vue.js**, **C**, **C++,** SQL, Database, Go, Swift, React, Rust