

Yongqi Zhang yongqizhang530@gmail.com | <https://yqz530.github.io/> | No sponsorship required.

SUMMARY OF QUALIFICATIONS

- R&D-focused software engineer and researcher with strong expertise in C# and Python, building scalable AI-driven systems from prototype to deployment.
- Experienced in designing full-stack architectures, real-time inference pipelines, and ML-powered interactive applications.
- Proven ability to translate research concepts into robust, production-ready systems.

RELEVANT EXPERIENCE

Autonomous Investing – Applied Scientist Intern

Jan 2026 – March 2026

- Designed and deployed a full-stack AI web application for autonomous financial research and portfolio optimization, serving 100+ active users shortly after launch.
- Built serverless backend pipelines using Vercel and Supabase to support real-time inference, data processing, and interactive user workflows.
- **Technologies:** TypeScript, Python, Web Applications, Agentic AI, Supabase, Vercel

Adobe Applied Scientist Intern

May 2022 - Aug 2022

- Built a web-based interactive AR system with real-time motion tracking to enable AI-powered motion graphics authoring experiences.
- Improved pose recognition model accuracy from 80% to 95% and optimized real-time inference performance, contributing to a filed U.S. patent.
- **Technologies:** TypeScript, Python, Web Applications, Machine Learning

Graduate Research Assistant

Sep 2019 - Present

Design Computing and Extended Reality Research Lab

- Designed and developed interactive systems in C# (Unity) to support human–AI collaboration for complex design and optimization problems.
- Formulated research problems in computational design and implemented end-to-end solutions integrating machine learning models, simulation, and user interaction.
- Conducted quantitative evaluations and user studies to analyze system performance, iterating on algorithms and interaction strategies to improve efficiency and solution quality.
- **Technologies:** C#, Python, Unity, Machine Learning, Optimization, LLMs

EDUCATION

George Mason University, Fairfax, VA
PhD student, Computer Science GPA: 4.0

2019 - Present

University of Massachusetts Boston, Boston, MA
Bachelor of Science, Computer Science GPA: 3.9

2015 - 2019

SELECTED PUBLICATION

HieraVisVR: Hierarchical Visual Analytics for Motion-Centric VR Playtesting

Yongqi Zhang, Erdem Murat, Liuchuan Yu, Haikun Huang, Minsoo Choi, Christos Mousas, Lap-Fai Yu
ACM SIGCHI, 2026

PoseVEC: Authoring Adaptive Pose-aware Effects using Visual Programming and Demonstrations

Yongqi Zhang, Cuong Nguyen, Rubaiat Habib Kazi, Lap-Fai Yu
ACM Symposium on User Interface Software and Technology, 2023

Joint Computational Design of Workspaces and Workplans

Yongqi Zhang, Haikun Huang, Erion Plaku, Lap-Fai Yu
ACM Transactions on Graphics (Proceeding of SIGGRAPH Asia), 2021

Exercise Intensity-driven Level Design

Yongqi Zhang*, Biao Xie*, Haikun Huang, Elisa Ogawa, Tongjian You, Lap-Fai Yu
*Equal contributors | *IEEE VR*, 2018

REFERENCES

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