Yixiao Kang

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EDUCATION

Shanghai Jiao Tong University, China   2019/09-2023/07(Expected)

Bachelor of Engineering in Software Engineering
Junior Year GPA: 4.0 / 4.0

Computer graphics	98	Architecture of Enterprise Applications	94
Data Structure	94	Software Engineering Principles and Practice	93
Computer Systems Engineering	90	Discrete mathematics	90

University of Novi Sad, Serbia

Summer Exchange Program   2019/07

RESEARCH EXPERIENCE

Shaping the Connected Museum, a joint program supported by the University of Nottingham and Shanghai Jiao Tong University

Research Assistant   2021/06 – 2021/09

Advisor: Steve Benford, Professor of Computer Science, The University of Nottingham

➢ Developed and deployed an AR application to create tangible personalized souvenirs for interactive learning in the Shanghai Science and Technology Museum
➢ Adopted and evaluated multiple interaction methods including mobile interface, hand gestures and voices.
➢ Conducted user research on increasing personalization of exhibition experience though AR.

Smart Display Lab (SDL) at Shanghai Jiao Tong University, Shanghai, China

Research Assistant   2019/11 – 2021/06

Advisor: Chao Ping Chen, Associate Professor of Computer Science, Shanghai Jiao Tong University

➢ Proposed a framework of 3D navigation, mapping and target detection for AR
➢ Processed time-series data from LiDAR Scanner with an unsupervised deep neural network
➢ Built indoor 3D map by applying Delaunay triangulation to the point cloud

Digital ART Laboratory (DAL) of Shanghai Jiao Tong University Shanghai, China

Research Assistant   2021/06 –now

Advisor: Xubo Yang, Professor of Computer Science, Shanghai Jiao Tong University

➢ Created an AR virtual experiment application with unity
➢ Simulated physical optical convex lens imaging experiment and performed real-time calculation of imaging results according to user-set parameters
➢ Visualized abstract concepts in experiments like optical paths and molecular models etc.

PUBLICATIONS

➢ Simultaneous Tracking, Tagging and Mapping for Augmented Reality, presented at 5th International Conference on Display Technology Conference, Vol. 52, pp. 31-33 (1st Author)
➢ Retargeting Destinations of Passive Props for Enhancing Haptic Feedback in Virtual Reality, accepted by IEEE conference on virtual reality, 2022, (2st Author)
➢ Tie memories to e-souvenirs: personalized souvenirs with augmented reality for interactive learning in the museum, in preparation for the 8th International Conference on Virtual Reality (IEEE ICVR), 2022, (1st Author)

HONORS & AWARDS

- ➢ Presentation on International Conference on Display Technology (ICDT 2021)   2021/06
- ➢ 2021 Huawei Scholarship (Top 5%)   2021/12
- ➢ Gold Prize of China Collegiate Algorithm Design & Programming Challenge Contest   2021/06
- ➢ 2020 Interdisciplinary Contest in Modeling- Meritorious Winner   2020/04
- ➢ Second Prize of China Digital Media Technology and Creativity Competition   2021/12

LEADERSHIP AND ACTIVITIES

Volunteer at EXIT, largest music festival in Europe, Novi Sad, Serbia   2019/07
- ➢ Tuned the sound system and multiple instruments for the performance as a stage assistant
- ➢ Inform artists of performance time and maintain backstage order

Master Distinguished Lecture Host Group, Shanghai, China   Chair, 2020/11 – now
- ➢ Host major events in SJTU, including TED and academic lectures
- ➢ Recruit and train members of the host group

SKILLS

- ➢ Programming: Competent in C, C++, C#, Python, Java, JavaScript, HTML, Swift, SQL, Matlab. Proficient in unity, OpenGL, ARKit and AR Foundation, React, SpringBoot, Mysql, MongoDB, Redis, Docker, Tensorflow, IOS and Andriod development
- ➢ Languages: Chinese (Native); English (Proficient)