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Education

University of Shanghai for Science and Technology

Sept 2021 - Jun 2025 (Expected)

Bachelor's Degree in Intelligence Science and Technology

Shanghai, China

Relevant Coursework

- Machine Vision (92)
- Autonomous Mobile Robots (98)
- Machine Learning (93)

- Robot Vision System and Measurement (92)
- Intelligent Simulation (91)
- Natural Language Understanding (95)

Research Experience

Human-Computer Interaction Research Group

Jul 2024 - Present

Undergraduate Researcher supervised by Prof. Diego Gómez-Zará

 $University\ of\ Notre\ Dame$

- Integrated depth camera with visual SLAM (Simultaneous Localization and Mapping) on ROS (Robot Operating System) to achieve real-time scene understanding and environmental mapping in mixed reality setups.
- Developed a VR meeting room prototype using Unity and Photon Networking to create multi-user, immersive environments, improving virtual collaboration in distributed teams.
- Implemented object detection pipelines for dynamic interaction with virtual objects.
- Applied Unity's XR interaction toolkit to create intuitive user controls and interactions, ensuring seamless communication between the VR hardware and software.
- Participated in interdisciplinary research discussions and paper writing, focusing on the impact of immersive technologies on human-computer interaction and usability.
- Collaborated with teams on mixed reality projects that leveraged AI-driven environmental recognition to enhance object detection and manipulation in virtual and augmented spaces.

Summer Undergraduate Research

Aug 2023 - Jan 2024

Remote Undergraduate Researcher supervised by Prof. Darko Marinov

University of Illinois Urbana-Champaign

- Assisted in identifying and establishing a pipeline of clients for library translation services, while testing compatibility and stability of client integrations.
- Collaborated with professors and peers on a research paper.
- Leveraged Linux environments for efficient development, utilizing Docker containers for consistent development setups and scaling applications. Utilized GitHub for team collaboration and code review.
- Modified and optimized XML configuration files for better modularity and compatibility across multiple Maven-based Java projects.
- Resolved complex Python packaging and dependency conflicts within Java runtime environments, enhancing cross-language integration.
- Gained hands-on software engineering experience including troubleshooting, code optimization, and environment setup.

School Of Computing Summer Workshop

Visiting Student

National University of Singapore

- Developed a 2D game from scratch within a 3-week timeframe, collaborating with group members.
- Acquired proficiency in Unity and C# for 2D game development.

Skills

Programming: Python, C#, C, C++, SQL, Java, Matlab

Tools and Frameworks: ROS, Unity, Google Cloud Platform, Docker, Git

Machine Learning Libraries: PyTorch, TensorFlow Engineering: Realsense, Altium, Keil, PCB design

Languages: English (proficient), French (beginner), Chinese (native)

Activities & Interests

Activities: Shanghai Marathon, Podcast Host, English Tutor

Interests: long distance running, reading, photography, writing, hiking