Sida Li

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Education

University of Illinois at Urbana-Champaign   Cumulative GPA: 3.9/4.0
    Bachelor of Science in Computer Science and Psychology   May 2015
      Dean's List / James Scholar / High Honors / Cum Laude
    Master of Science in Computer Science   May 2016
      Thesis: Augmented Reality Persistent Annotation

Professional Experience

University of Maryland UMIACS - *Dr. Amitabh Varshney*   Aug. 2016 - present
- Developed VR application for language acquisition in cooperation with UMD CASL
- Implemented ambisonic audio decoder to recreate spatial audio recordings in VR
- Optimized FFmpeg decoding scheme to enable fast seeking between multiple videos
- Developed streaming workflow supporting MPEG-DASH playback

Virtual Reality Teaching Assistant - *Dr. Steve LaValle*   Jan. 2016 - May 2016
- Designed assignments and machine problems that incorporated core VR concepts
- Guided and advised VR projects from a pool of 33 student project groups

Skycatch - *Computer Vision Engineer Intern*   Jun. 2015 - Aug. 2015
- Developed proprietary computer vision algorithm to refine point cloud; achieved 10cm accuracy in georeferenced point cloud model - patent pending
- Optimized structure from motion pipeline for large scale datasets up to 800 images

University of Illinois CITES ICS - *Technical Consultant*   Oct. 2012 - Jan. 2014
- Distributed software bundles through Novell ZENworks to 800+ lab computers
- Updated system images routinely for lab rebuilds and resolved software malfunctions

Blue Chips Technology Co., Ltd - *Software Development Intern*   Jul. 2013
- Developed C-based network socket under Objective-C application structure
- Accessed IOS native code on Javascript using Apache Cordova plugin

Research Experience

Graduate Research Assistant - *Dr. David Forsyth*   Aug. 2015 - May 2016
- Developed augmented reality annotation system on Project Tango tablet to create persistent annotation in any environment
- Established collaborative platform for multiple devices to operate synchronously
- Conducted user study to verify productivity increase on annotation tasks

Undergraduate Research Assistant - *Dr. Golparvar-Fard*   Jan. 2014 - May 2015
- Built web application to register image to 3D model with user-guided inputs
- Implemented mesh-assisted structure from motion using registration as constraints for bundle adjustment

Skills
- C++ / Java / Python / C / Matlab / HTML / Javascript / PHP / CSS
- FFmpeg / OpenMVG(contributor) / Ceres-Solver / OpenCV / Unity