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 — Graduated May 2015
Dean's List / James Scholar / Cum Laude
Master of Science in Computer Science — Graduate May 2016

Professional Experience

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
- Assessed bundle adjustment, camera calibration and georeferencing procedures and modified implementations to suit customized needs

Blue Chips Technology Co., Ltd - *Software Development Intern* — Jul. 2013

- Developed C-based network socket under Objective-C application structure
- Accessed IOS native code through Javascript using Apache Cordova plugin
- Implemented Javascript interface on Phonegap mobile development framework

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

CS 125 Intro to Computer Science - *Course Assistant* — Aug. 2012 - May 2013

- Clarified concepts of Object Oriented Programming and motivated Object Oriented thinking in a lab section of 35 students
- Hosted weekly office hours to guide students in solving programming issues

Research Experience

Graduate Research Assistant - *Professor David Forsyth* — Aug. 2015 - present

- Register virtual objects with physical environment constraints in augmented reality
- Incorporate hand gesture recognition to locate reference point for object manipulation
- Establish collaborative platform with augmented reality persistent annotation

Undergraduate Research Assistant - *Dr. Golparvar-Fard* — Jan. 2014 - May 2015

- Built web application that registers image to 3D model using user selected input and automatic techniques such as homography estimation or point triangulation
- Implemented mesh-assisted structure from motion using registration as constraints during bundle adjustment

Skills

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