Wode Ni

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Education

Columbia University
- B.S. in Computer Science
- Major GPA: **4.0**, Cumulative GPA: **3.9**7
- Vision, Graphics Track

2016.9 - Present
New York, NY

Dickinson College
- B.S. in Computer Science
- Major GPA: **4.0**, Cumulative GPA: **3.93**
- Computer Science Departmental Honors

2013.9 - 2016.5
Carlisle, PA

Publications

Substance and Style: domain-specific languages for mathematical diagrams
Wode Ni*, Katherine Ye*, Joshua Sunshine, Jonathan Aldrich, and Keenan Crane.
Domain-Specific Language Design and Implementation (DSLDI), 2017.

Whiteboard Scanning Using Super-Resolution
Wode Ni.
Dickinson College Honors Theses. Paper 221.

Experience

Carnegie Mellon University, Research Experiences for Undergraduate   *2017.5 - 2017.8*
Research Assistant

Penrose is a system that automatically visualizes mathematics using two domain-specific languages: Substance and Style. Co-advised by Jonathan Aldrich, Keenan Crane, Joshua Sunshine, and Katherine Ye, I designed and implemented the Style language, and extended the Substance language to support functions and logically quantified statements.

Columbia University, Computer Graphics and User Interfaces Lab   *2017.1 - 2017.5*
Research Assistant

Worked with prof. Steven Feiner, on **Cyber Affordance Visualization in Augmented Reality** project. Developed a Microsoft Hololens application that visualizes the Columbia campus in AR environment.

AsiaInfo   *2015.6 - 2015.8*
Software Engineering Intern

Worked on server-side web applications and server deployment tools.

Teaching

Teaching Assistant, **Programming Languages and Translators** (COMS 4115) *Columbia, 2017*
Teaching Assistant, **Introduction to Java II** (COMP 132) *Dickinson, 2016*
Peer Tutor, **Data Structures and Problem Solving** (COMP 232) *Dickinson, 2015*
Computer Lab Consultant *Dickinson, 2014 - 2016*

Honors & Awards

Tau Beta Pi, Engineering Honor Society *Columbia, 2017*
Computer Science Departmental Honors *Dickinson, 2016*
Pi Mu Epsilon, Mathematics Honor Society *Dickinson, 2016*
Upsilon Pi Epsilon, Computer Science Honor Society *Dickinson, 2015*
Alpha Lambda Delta, Honor Society for First-Year Students *Dickinson, 2013*
John Montgomery Scholarship *Dickinson, 2013*