



# Sang Heon Choi

## Undergraduate Researcher

I'm still exploring different sub-fields in Computer Science at the moment. My interest leans to Human-Computer Interaction right now, but if you believe my experience and skillset can be valuable to your project, don't hesitate to reach out!

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📞 812-671-3657

🌐 sang-choi.github.io

🐙 github.com/Sang-Choi

## EDUCATION

### B.S. in Computer Science Rose-Hulman Institute of Technology

09/2019 – Present

GPA 3.72

#### Courses

- Data Structures & Algorithms
- Technical & Professional Communication
- Introduction to Machine Learning
- Discrete Mathematics I & II

## WORK EXPERIENCE

### REU @ Institute for Software Research Carnegie Mellon University

05/2020 – Present

Research Experience for Undergrads (REU) NSF Grant Award #1918140

#### Achievements/Tasks

- Used lightweight formal methods to verify robustness within a software system
- Conceived 'Consolidation' concept as an innovative way of designing safe software systems
- Paper pending

Contact: Dr. Eunsuk Kang – eskang09@andrew.cmu.edu

### Clemson RSRG Developer Clemson University

01/2020 – 06/2020

RESOLVE Software Research Group (RSRG) NSF Grant Award # 1914667

#### Achievements/Tasks

- Software Lead for 'Educator' section of BeginToReason tool
- Collaborated with researchers and developers from four different universities to construct rapid design mockups for implementation

Contact: Dr. Joseph Hollingsworth – hollings@rose-hulman.edu

### Teaching Assistant Rose-Hulman Institute of Technology

11/2019 – Present

#### Achievements/Tasks

- Supported student learning graded for Calculus I and CSSE 120

## SKILLS

Java

Python

C

FSP

Discrete Mathematics

Django

Bootstrap

Statistics

LaTeX

## PERSONAL PROJECTS

These can be found on my website!

## ORGANIZATIONS

Delta Sigma Phi Fraternity (02/2020 – Present)

Society of Asian Scientists and Engineers (SASE)  
(09/2019 – Present)

National Honors Society (09/2017 – 05/2019)  
President

Model United Nations (09/2012 – 05/2019)  
Delegate/Chairman/Secretary-General

## HONOURS/AWARDS

Rose-Hulman Merit Scholarship  
21,000 USD yearly scholarship

Robert A. Waddell Scholarship  
2,500 USD yearly scholarship

Google Tech Challenge 3rd Place

Conexus Indiana Business Case Competition Finalist

## LANGUAGES

English  
Native or Bilingual Proficiency

Korean  
Native or Bilingual Proficiency

Mandarin  
Limited Working Proficiency