# SHUYI SUN
*Computer Scientist*

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## Education

**Georgia Institute of Technology**                         *August 2015 – May 2019*
- ❖ Undergraduate student for Bachelor of Science in Computer Science

## Experience

**Undergraduate Teaching Assistant,** *CS 3651*                         *January 2019 - Present*
*Prototyping Intelligent Appliances, College of Computing*
- ❖ Teaching and assisting students during class /lab
- ❖ Grading homework, quiz/exam papers, and projects
- ❖ Holding office hours

**Campus Kitchen Project**

*September 2016 – Present*

*Shift Captain*
- ❖ Contact and expand volunteer base for the organization, coordinate sign ups
- ❖ Overseeing, organizing, and leading shifts

*Health & Well-Being Liaison*
- ❖ Coordinate with the Health & Well-being Program

## Research

**Puzzle Smart Toy for Trait Detection of Dogs,** *FIDO Lab*                         *May 2018 - Present*
- ❖ Built a puzzle-solving smart toy to detect actions made by dogs
- ❖ Physical prototyping involving 3D printing, silicone and wax casting, and SMD soldering
- ❖ Programmed the microcontrollers to log data from pneumatic sensors and a 9-axis inertial motion sensor
- ❖ Co-authored a peer-reviewed demo abstract, "Technology for Working Dogs", accepted to ACI 2018

**Computational-Making in the HCI Classroom,**                         *May 2018 - July 2018*
*School of Interactive Computing*
- ❖ Analyzed interviews with Dedoose
- ❖ Co-authored paper, "Computational-Making in the HCI Classroom: Tensions Between Traditional CS Education and Maker-Oriented Learning"

## Projects

**Jolly Library**, *Capstone Project*                         *January 2018 - December 2018*
- ❖ Developed a fault-tolerance library intended for use and teaching in future classes
- ❖ Project manager of team
- ❖ Wrote documentation, created website for documentation
- ❖ Coded the library

## Skills

**Languages:** English (native), Chinese (native), Japanese (limited working proficiency), Korean (limited working proficiency)

**Programming Languages and Tools:** Python, Java, HTML, CSS, C, Arduino, Processing

**Operating Systems:** Windows, Macintosh, Linux

**Design and Prototyping:** Acrylic Painting, Adobe Creative Studio, Autodesk, UI Design, Tableau, 3D Modeling and Printing, Laser Cutting, Electronics Prototyping