

# Stanley Yip

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## Education:

**Brown University**, Providence, Rhode Island  
*Bachelor of Science* | Class of 2021 (May)  
Major: Computer Science, Engaged Scholars Program  
Major GPA: 4.0

## Contact:

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## Courses:

**CSCI 0150** - Intro to Object Oriented Programming  
**CSCI 0160** - Intro to Algorithms and Data Structures  
**CSCI 0330** - Intro to Computer Systems  
**CSCI 1300** - User Interfaces and User Experiences  
**CSCI 1430** - Computer Vision

**CSCI 0220** - Intro to Discrete Math  
**MATH 0200** - Multivariable Calculus  
**MATH 0520** - Linear Algebra  
**MATH 1530** - Abstract Algebra  
**MATH 1580** - Cryptography

## Experience:

### **Brown University Computer Science Graphics Lab (with Andy van Dam)**

*Team Lead* | February 2019 - Current (Summer 2019 full time)

**Project:** Dash --- A spatial, hierarchical, & relational document-centric hypermedia platform.  
**Funding:** Microsoft Research and Adobe Research.

- Managed and organized 10 students on day-to-day development of Dash.
- Developed Dash from a UWP project into a React + TypeScript/Node stack with the team.
- Planned and presented hour-long Dash demos to project sponsors (Microsoft Research, Adobe Research).
- Responsible for group culture and diversity. Identified team issues and resolved with open dialogue.

*Team Member* | March 2018 - Current (Summers 2018, 2019 full time)

- Improved text selection in PDFs which exhibit poor cross-paragraph selection by k-means clustering characters, words, and columns to discover true document layout. See video online here.
- Developed a sub-document-grained permissions system with four levels of permissions (visible, read, add-only, write) to support small group collaboration and presentation.

### **Brown CS Ethics Program**

*Ethics Head Teaching Assistant* | May 2019 - Current

- Educate CS students on ethics and societal impact of tech by integrating ethics curricula into courses.
- Incorporate ethics-related readings, activities, and materials into CS1300: UI/UX.
- Responsible for helping establish pedagogical principles and techniques of incorporating ethics curricula.
- Managed and organized 10 students assigned to 5 pilot courses using Dash.

### **Brown CS TA Program**

*Undergraduate Teaching Assistant* | August 2018 - May 2019

- Revised and graded course projects, homeworks, and assignments.
- Held weekly office hours for debugging and conceptual clarifications and sections/labs.

Courses TA'ed:

**CSCI 0150** Intro to Object Oriented Programming  
**CSCI 0160** Intro to Data Structures and Algorithms

Andy van Dam, Fall 2018  
Seny Kamara, Spring 2019

## Technical Skills:

- **React, Node, TypeScript** (research, courses)
- **JavaScript, MongoDB** (research, courses)
- **C# & XAML (UWP)** (research)
- **Java, Python** (courses, TA)
- **C** (courses)

## Tools:

- **Github & Git Bash** (source control)
- **Visual Studio, Eclipse, Vim** (programming tools)
- **Illustrator, Photoshop** (design)
- **Overleaf, LaTeX** (documents)
- **Figma, Proto.io, Framer, Sketch** (prototyping)