# Christopher Daniel Choy

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## EDUCATION

**The University of Chicago**                                                                                                      Chicago, IL
*Bachelor of Science, Computer Science*                                                                          Expected, June 2019
*Relevant Courses*: Operating Systems, Computer Architecture, Networks and Distributed Systems, Theory of Algorithms, Databases, Software Construction

## EXPERIENCE

**Computer Science Instructional Laboratory**, Univ. of Chicago                              Chicago, IL
*Programmer, Tutor, Clerical Student Office Asst.*                                                        Jan. 2017 - *present*
- Utilized Ansible automation in creating and maintaining Mac OS X 10.10 and 10.12 images.
- Collaborated with peers to maintain lab machine backups and track and gather daily lab usage statistics over the course of 6 months.
- Worked an average of 15 hours per week while handling student and extracurricular responsibilities.

**Design/Her (formerly FEMMES)**, Univ. of Chicago                                              Chicago, IL
*Head of Modules, Curriculum Committee Member*                                                       Jan. 2017 – *present*
- Reduced future gender parity by helping female middle school students to facilitate their understanding of key computer science concepts through straightforward, hands-on lessons.
- Designed 8 intellectually stimulating weekly curricula and 5 annual capstone modules in collaboration with fellow undergraduates and university professors.

## NOTABLE PROJECTS

**PintOS**, Operating Systems Class Project                                                                    Sept - Dec. 2017
- Used C to implement key features on top of an instructional operating system framework that improved the code's performance and reliability.
- *Implementation Highlights*: thread priority donation, virtual memory, system calls, separation of user and kernel space, and a better file system.

**Chirc, Chitcp, Chirouter**, Networks Class Projects                                               Jan - Mar. 2017
- Used C to implement actual network protocol specifications found at multiple software levels of today's common networks and distributed systems.
- *Implementation Highlights*: A Transmission Control Protocol (specified in RFC793), a simple IPv4 datagram router, and a working internet relay chat.

## SKILLS

*Programming/Languages*: C, Assembly, C++, Java, DrRacket, R, HTML, CSS, PHP, Python
*Systems*: Linux/Unix, Mac OS X 10.11 and 10.13, Windows 10
*Software*: GitHub, Atom, LaTeX, Microsoft Excel & Word, Adobe Photoshop CS6

## LEADERSHIP

**President**, *Shorey House, Univ. of Chicago*                                                       June 2017 – *present*
**Vice President**, *Japanese Animation Society, Univ. of Chicago*                     June 2017 – *present*
**Head of Modules**, *Design/Her, Univ. of Chicago*                                              Jan 2017 – *present*
**President**, *Class of 2015, Worcester Preparatory School*                              Sept 2014 – June 2015
**Editor-in-Chief**, *Yearbook, Worcester Preparatory School*                           Sept 2014 – June 2015

## INTERESTS

Kendo, Tennis, Soccer, Smash 4, Guitar, Animation, Graphics, East Asian Lang. & History