

Christopher Choy

www.chrischoy.net
cchoy@uchicago.edu | 302.381.1109

EDUCATION

UNIVERSITY OF CHICAGO

BS IN COMPUTER SCIENCE

Expected June 2019 | Chicago, IL
Conc. in Computer Systems
Dean's List 2017-2018

WORCESTER PREPARATORY

HIGH SCHOOL DIPLOMA

Headmaster's List 2011-2015
Grad. May 2015 | Berlin, MD

LINKS

Github:// [cchoy96](#)

LinkedIn:// [cchoy96](#)

COURSEWORK

UNDERGRADUATE

Algorithms
Software Construction
Databases
Networks and Distributing Systems
Usable Security and Privacy

TECHNICAL SKILLS

PROGRAMMING

Proficient:

C • Python • Shell • Bash • SML

Familiar:

Java • C++ • Swift • Assembly
SQL • HTML • CSS • DrRacket

Exposure:

JavaScript • R • PHP • Django

SOFTWARE

Proficient:

Git • Vim • Mac OS X • Linux
Docker • Streamsets

Familiar:

LaTeX • MS Excel • Xcode
Kubernetes • Apache Kafka
Apache Spark • Flask
Jupyter Notebook

Exposure:

Windows 10 • Elastic Filebeat

INTERESTS

Kendo • Tennis • Soccer • Smash 4
Guitar • Animation • Graphics
East Asian Languages & History

EXPERIENCE

GLOBALFOUNDRIES | BIG DATA ANALYTICS + AUTOMATION INTERN

Jun - Sept 2018 | Malta, NY

- Worked on the Big Data Project Pilot team to architect, implement, and market a big data cloud storage system that supplied an AWS platform for machine learning and data visualizations with an estimated ROI of \$2M+ (760%).
- Automated processes using Streamsets, Python, Kubernetes, and Docker to ensure Quality of Service for over 500GB/day of data.
- Used Apache Spark and Jupyter Notebook to create previously unavailable visualizations of large datasets for impact and failure analysis.

CSIL, UNIV. OF CHICAGO | PROGRAMMER, TUTOR

Jan 2017 - present | Chicago, IL

- Generated and maintained Mac OS X computer images using Ansible automation
- Collaborated with peers to program software critical for administrative tasks such as machine backups, server resource allocations, and usage statistics.
- Worked an average of 15 hours per week while handling student and extracurricular responsibilities.

NOTABLE PROJECTS

SPAMALOT II: SPAM BOTHERS ME | USABLE SECURITY AND PRIVACY

Apr - Jun 2018

- Scientific paper detailing a pilot study for further research into human-defined, machine learning classifiers that would improve email spam filters.
- Built a dynamic survey that interacted with Gmail's API to securely pull and display random emails from participants' inboxes.

MUSIC-DRIVEN WORKOUT APP

Feb - Mar 2018

- Worked on a team of 8 students to deliver an iOS application that recognizes a user's exercise rhythm and builds a Spotify playlist to match that rhythm.
- Built using Xcode, Swift, Flask, Python, Spotify API, and Digital Ocean.

PINTOS | OPERATING SYSTEMS

Sept - Dec 2017

- Used C to build a "pint-sized" operating system on top of an instructional framework that improved the system's performance and reliability.
- Implementation highlights: thread priority donation, virtual memory, system calls, separation of user and kernel space, and a better file system.

LEADERSHIP

2017-2019	President	Japanese Animation Society, Univ. of Chicago
2017-2019	Curriculum Lead	<compile/Her>, Univ. of Chicago
2016-2018	President; Secr.	Shorey House, Univ. of Chicago
2014-2015	President	Class of 2015, Worcester Preparatory

AWARDS & SOCIETIES

2018	UChicago	Dean's List
2014	Top 10%	Cum Laude, William E Esham Jr. Chapter
2013	National	Honor Society