

Christopher Daniel Choy

(302) 381 1109 | cchoy@uchicago.edu | www.chrischoy.net
Github://cchoy96 | LinkedIn://cchoy96

EDUCATION

The University of Chicago Chicago, IL
B.S in Computer Science Expected, June 2019
Select Coursework: Software Construction, Databases, Networks, Operating Systems, Usable Security
Honors: Dean's List 2017-2018

EXPERIENCE

GLOBALFOUNDRIES Malta, NY
Big Data Analytics + Automation Intern Jun. – Sept. 2018

- Architected, implemented, and marketed a big data cloud storage system that supplied an Amazon Web Services cloud platform for machine learning and data visualizations with an estimated Return On Investment of \$2M+ (760%).
- Automated processes using Streamsets, Python, Kubernetes, and Docker to ensure Quality of Service for clusters streaming over 500GB/day of data into a data lake.
- Created previously unavailable visualizations of large datasets for impact and failure analysis of repeatedly cancelled wafer operations using Apache Spark and Jupyter Notebook.

Computer Science Instructional Laboratory, Univ. of Chicago Chicago, IL
Programmer, Tutor Jan. 2017 – Jun 2018

- Generated and maintained Mac OS X computer images using Ansible automation to ensure integrity and uniformity across 50 lab machines on a daily basis.
- Collaborated with peers to program software critical for administrative tasks such as machine backups, server resource allocations, and generating usage statistics for 4 labs with up to 100 concurrent users.

NOTABLE PROJECTS

Music-Driven Workout App Winter 2018

- Worked on a team of 8 students for 6 weeks to deliver an iOS application that recognizes a user's exercise rhythm and builds a Spotify playlist with songs to match that rhythm.
- Created the front-end interface and server API using Swift, Python, Flask, Xcode, and Digital Ocean.

PintOS Autumn 2017

- Built a "pint-sized" operating system using 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.

TECHNICAL SKILLS

Languages: C, Python, Shell/Bash, SML, Java, C++, Swift, SQL, Assembly, HTML & CSS, JavaScript, R
Systems: Linux/Unix (Ubuntu and CentOS), Mac OS X 10.11 and 10.13, Windows 10
Software: Git, Vim, LaTeX, Flask, Apache Spark, Jupyter Notebook, MS Excel, Xcode, Docker, Kubernetes, Streamsets, Apache Kafka

EXTRACURRICULARS

<compile/Her>, Univ. of Chicago | Curriculum Lead 2017 – *present*
Japanese Animation Society, Univ. of Chicago | President, Vice Pres. 2017 – *present*
Shorey House, Univ. of Chicago | President, Secretary 2016 – 2018
Class of 2015, Worcester Preparatory | President, Vice Pres. 2013 – 2015

INTERESTS

Kendo, Tennis, Soccer, Super Smash 4, Guitar, East Asian Languages & History