Christine **Lee**

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EDUCATION

CARNEGIE MELLON UNI.
B.S. in Computer Science
Minor in Japanese
Dec 2017 | Pittsburgh, PA
Cum. GPA: 3.73/4.0
Dean's List Fall 2015, Spring 2016

LINKS

Facebook: **chrisyxlee**
Github: **chrisyxlee**
LinkedIn: **chrisyxlee**

REL. COURSEWORK

-Operating Systems
-Compiler Design
-Algorithm Design and Analysis
-Parallel Computer Architecture
and Programming **(Teaching Asst.)**
-Computer Vision
-Principles of Imperative
Programming **(Teaching Asst. x3)**

SKILLS

PROGRAMMING
Proficient
C++ • C • Java • Objective-C • SML
C# • LaTeX • PHP/Hack • HTML
CSS • JavaScript/React Native
SQL • OCaml • Python • GoLang
ProtoBuf
Familiar:
Assembly • CUDA • Ruby
LANGUAGES
Native Proficiency
Mandarin Chinese
Working Proficiency
Japanese

EXTRACURRICULARS

Piano **(YouTube)**
Study Abroad Japan Spring 2017
Bouldering
Cycling

EXPERIENCE

YOUTUBE | Software Engineer
Apr 2018 - Present | San Bruno, CA
- Fighting engagement abuse (view count, likes, dislikes, subscriptions, etc.).
- Employing anomaly detection and clustering for alerting.
- Designed and implemented large-scale intra-day batch data processing pipelines for enforcement in **C++** .

AIRBNB | Software Engineering Intern
May 2017 - Aug 2017 | San Francisco, CA

- Created image compression service and library that reduces Airbnb's images to **10%** of the original file size on average.
- Implemented **structural similarity indexing** in **Java** to ensure perceptual quality after compression.
- Integrated uploading, compressing, and previewing of one-off images in admin tool using **Ruby** and **React** .

FACEBOOK | Software Engineering Intern
May 2016 - Aug 2016 | Menlo Park, CA
- Developed new continuous integration system for testing new toolchain against open source projects in **PHP/Hack** .
- Won Judge's Award at company-wide hackathon for Remembrance, a dedicated space to grieve the loss of a loved one. Developed in **React Native** and **PHP/Hack** . Presented to Mark Zuckerberg in **livestream**

COGNITIVE TUTOR AUTHORING TOOLS | Research Assistant
Sep 2014 - Jun 2015 | Pittsburgh, PA
- Implemented tool in **Java** that allowed researchers to automatically replay large amounts of saved student responses to the cognitive tutor.

PROJECTS

PROPAGANDA | Parallel Comp. Architecture and Programming
Apr 2016 - May 2016 | Pittsburgh, PA
- Created a parallel return-oriented programming attack generator in **C++** by using parallel search with equivalence rules.
- Solved Intro. to Computer Systems homework assignment that took a few hours to do by hand in **30ms** .

WORD WAR | Facebook University iOS Engineering Intern
Jun 2015 - Aug 2015 | Menlo Park, CA
- Created real-time iOS word game in **Objective-C** with two others.
- Used iOS animation framework with physics, **pop** , for natural gameplay.
- Integrated **Firebase** (real-time server) and **Parse** (backend) to store game data and send messages during games.

SCENE STUDIO | Applied Computational Intelligence Lab at CMU
Aug 2015 - Dec 2015 | Pittsburgh, PA
- Built smart program to convert user's 2D drawings into interactive 3D models in a malleable environment with Unity (**C#**) and Oculus Rift in a team of 4.
- Programmed Wiimote as natural form of input.
- Implemented ability to interact with objects in the scene.
- Tied interface and machine learning algorithm into rest of program.