




Jonathan Chu

 [jonathanchu78.github.io](https://github.com/jonathanchu78)
(916) 751-8354
 jonathanchu78@gmail.com

 [jonathanchu78](#)
 [my profile](#)
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Skills

- **Languages:** C++, Java, Python, C, HTML & CSS, JavaScript
- **Tools + Frameworks:** Linux, Vim, Git, node.js, AngularJS, Bootstrap, AWS Lambda/API Gateway

Education

University of California, Los Angeles

Expected June 2020

B.S. Computer Science & Engineering | Mathematics Minor

- 3.72 GPA; Data Structures & Algorithms, Software Const. Lab, Operating Systems, Programming Languages

Experience

Software Development Engineering Intern – Amazon Go

June 2018 - September 2018

- Built a scalable UI for internal device monitoring with AngularJS
- Created an AWS API Gateway service that invokes AWS Lambdas for analysis results, to be called by a number of clients and scaled to more Lambdas in the future
- Integrated the two components for an end-to-end, production-quality service

Software Developer - BuildUCLA

July 2017 - Present

Project 2: [Image Collection Navigation](#) - website for visualization of images related to UCLA collected over the years

- Built backend with Flask/Neo4j and migrated to node.js/MongoDB to better accommodate frontend devs

Project 1: [Community Cataloging](#) | [GitHub](#) - web app for UCLA library to catalog books given images of cover pages

- Used python scripting to crop images to specified dimensions & send data from ScribeAPI to OCR in order to automate the process of taking relevant data (title, author, etc.) from images

Technology Chair - [California-Nevada-Hawaii District](#) of Circle K International | [Our GitHub](#)

April 2018 - Present

- Established a new committee, first of its kind within our organization, with a focus on Technology
- Oversaw & assisted with all technical projects involving software development and web design at the District level

Design Chair - Upsilon Pi Epsilon, UCLA Chapter

May 2018 - Present

- Spearheaded all things design alongside other student leaders of the University's Computer Science Honor Society

Projects

Live Stock – node.js, HTML, CSS, Flask | [GitHub](#)

- Stock-watching app developed at **LA Hacks 2018** to notify users when Twitter sentiment towards their stocks changes dramatically. Also employs technical analysis to make buy/sell/hold suggestions
- Twitter API, Google Cloud ML API, Twilio API, and BlackRockAPI - won best use of BlackRock API Award

TetrisAI – C++ | [GitHub](#)

- Added self-moving AI capability to open source Tetris game at 12-hour UCLA Hackathon
- Wrote algorithm to compute ideal move in C++ and made several minor changes to existing code to implement it

Spellbreakers (Dota 2 mod) – Lua | [GitHub](#)

- Implemented new game mode where players face off in a spelling challenge + more features/modifications
- Used Dota 2 mod API written in Lua at **SB Hacks 2018**

Flatpages – HTML, CSS, JS, Bootstrap | Designed a number of websites for Circle K International:

- [Crazy Kompetition for Infants Website](#) | [GitHub](#)
- [CNH Circle K Resource Center](#) | [GitHub](#)
- [Fall Training Conference 2017 Website](#) | [GitHub](#)