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| Jonathan Chu | Image result for email icon | [jonathanchu78.github.io](https://jonathanchu78.github.io/)  (916) 751-8354  jonathanchu78@gmail.com | Image result for facebook icon blackImage result for linkedin icon blackImage result for github icon black | ­­  [jonathanchu78](https://github.com/jonathanchu78)  [my profile](https://www.facebook.com/jonathan.chu.902)  [my profile](https://www.linkedin.com/in/jonathan-chu-662194b4/) |

**Skills**  .

* **Languages**: C++, C, Python, Verilog, HTML & CSS (comfortable) // Lua, Cypher, Octave (familiar)
* **Tools + Frameworks**: Linux, Vim, Git, Bootstrap, Illustrator (comfortable) // Neo4j, Arduino, LaTeX (familiar)

**Education .**

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| **University of California, Los Angeles** | **Expected June 2020** |

B.S. Computer Science & Engineering

* 3.80 GPA
* Data Structures & Algorithms, Software Const. Lab, Computer Organization, Operating Systems, Digital Logic Design

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| **Granite Bay High School** | **August 2012 - May 2016** |

* Academics: [Valedictorian Speech](https://www.youtube.com/watch?v=a5uqNhfNHL8), International Baccalaureate Diploma, Weighted/Non Weighted GPA: 4.63/4.00

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| **Coursera** | **December 2017 – February 2018** |

Machine Learning - covered Linear & Logistic Regression, Neural Networks, Gradient Descent, and other tools

**Experience .**

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| **Software Developer** -BuildUCLA | **July 2017 – Present** |

Current Project: [Image Collection Navigation](https://github.com/UCLALibrary/ImageCollectionNavigator) - website for visualization of images related to UCLA collected over the years

* Building site infrastructure with Flask and inserting/pulling data with Neo4j (graph database) & Cypher queries

Past Project: [Community Cataloging](http://babylon.library.ucla.edu/ccing/) | [GitHub](https://github.com/UCLALibrary/CC-ing)- app for UCLA library to catalog books given images of cover pages with Scribe API (primary interface, Ruby on Rails), Tesseract OCR, a Django Image Uploader, and a Mongo Database

* 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

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| **Web Developer** - Poasis | **April 2017 – June 2017** |

Project: Website for parking sharing company that connects drivers with owners of parking spaces

* Implemented client-side logic using PHP & SQL in new webpage to connect Apartment owners to drivers

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| **Graphic Design Chair & AV/Technology Chair** - Circle K International | **March 2017 - Present** |

* Built event website from ground up using HTML/CSS & Bootstrap; handled all technical aspects for large event
* Designed graphics to advertise events and establish club branding using Adobe Illustrator & Photoshop
* Worked closely with a diverse range of committees and delegated tasks to my own committee members

**Projects .**

**TetrisAI –** *C++ |* [GitHub](https://github.com/jonathanchu78/TetrisAI)

* 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](https://github.com/jonathanchu78/dota-sbhacks)

* 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**

**Website for Fall Training Conference 2017 –** *HTML, CSS |* [ftc.cnhcirclek.org](file:///C:\Users\lcguest.RESNET\AppData\Local\Temp\ftc.cnhcirclek.org) | [GitHub](https://github.com/jonathanchu78/FTC-2017)

* Built website for an event with 700 attendees from CA, NV, and HI following event theme and graphic standards
* Actively maintained and updated site with new information as necessary leading up to the event & after

**Mesh –** *HTML, CSS, JavaScript* | [jonathanchu78.github.io/Mesh](https://jonathanchu78.github.io/Mesh/) | [GitHub](https://github.com/jonathanchu78/Mesh)

* Developed an event schedule web app at **LA Hacks 2017** meant to replace paper pamphlets at large-scale events
* Provides a template for large event organizers to upload event info/details for attendee access

**Game Website –** *HTML, CSS, JavaScript* | [jonathanchu78.github.io/Games](https://jonathanchu78.github.io/Games/) | [GitHub](https://github.com/jonathanchu78/Games)

* Built a website with multiple JavaScript browser games at a small-scale hackathon

*Community Service*: 300+ hours cumulative *Hobbies/Interests*: Machine Learning, Piano/Classical Music, Graphic Design