

Winson Luk

EDUCATION

Expected 2020 **University of California, San Diego** San Diego, CA
Bachelor of Science in Computer Engineering
GPA: 4.0; ACT: 35; Provost's Honors

EXPERIENCE

2017 – Present **San Diego Supercomputer Center** San Diego, CA
Software Development Intern

- Coordinating with the Spatial Information Systems Lab to improve search capabilities for a global geoscience dataset inventory by enhancing XML metadata within a MongoDB staging database.

2015 – 2016 **Gigamind Explorer** San Mateo, CA
Junior Content Designer

- Architected a full-length mathematics workbook from concept to completion with Adobe InDesign and Illustrator, maintaining strong relationships with educators to establish layouts relevant to student needs.

2013 – 2016 **Carlmont Technology Club** Belmont, CA
Founder and President

- Founded a technology organization that competes annually in the San Jose Tech Challenge, coordinating the engineering operations of more than 30 students in 10 teams, winning a total of 4 regional awards.

AWARDS

Oct 2016 **SD Hacks 2016** Reddit Observation Bot on Twitch
1st Place, Twitch Moderation Challenge (Winner, Hack Harassment Challenge)

Aug 2014 **Congressional STEM Competition** College Loan Estimator
1st Place, California's 14th Congressional District

PROJECTS (Available at github.com/winsonluk)

Jan 2017 **Alizon** JavaScript, jQuery, AJAX, Python, PIL
Chrome Extension that suggests AliExpress substitutes for Amazon products

- Built the Python backend that implements the Amazon API to extract product images from ASINs, then uses PIL to conduct an exhaustive AliExpress backwards comparison.
- Collaborated with JavaScript developers in a team atmosphere to integrate the Python software into a Flask module, providing a stable server for requests from jQuery with AJAX.

Sep 2016 **Reffit** Python, NumPy, Pandas, BeautifulSoup, SQLite, Travis CI
Automated natural language product marketer that intelligently targets social media users

- Implemented live data mining of over 10,000 Reddit comments/hour, utilizing NumPy, Pandas, SQLite, and web data extraction of Amazon.com to generate instant intelligent natural language recommendations.
- Introduced a comprehensive test suite by incorporating Python unittest testing frameworks and Travis Continuous Integration while simultaneously extending software and testing compatibility from Python 2 to 3.

2014 – 2016 **Other Projects**
R.o.b.o.t (Python), Artificially intelligent Twitch chatbot powered by real-time Reddit conversations.
College Loan Estimator (Android), Financial calculator implementing datasets from the US Census and Georgetown.
Connect Four (Java), Connect Four virtual board game with photorealistic rendering, built with Swing.
wluk.me (HTML), A minimalistic Bootstrap-style website and blog developed with JavaScript.