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 App Challenge** | **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 encorporating 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.*