Bryan Ngo

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Objective: Sophomore seeking to apply knowledge from classes and personal projects to a full-time summer internship.

EDUCATION

University of California, Davis   Expected June 2019
Computer Science and Engineering
Cumulative GPA: 3.29/4.0

RELATED COURSEWORK

Data Structures and Programming, Cryptocurrency Technologies, Discrete Mathematics, Machine Dependent Programming, Algorithm Design (current), and Software Engineering (current)

PROJECTS

bryngo.me | L.A.M.P. STACK HOME SERVER
SKILLS/TOOLS: Linux, Apache, MySQLi, PHP, HTML, CSS, JavaScript, PhpStorm
- Personal server that uses the LAMP stack to host my own secure, dynamic website.
- Home to my personal portfolio and future web applications.

Cousin's Secret Santa (in progress) | CREATE YOUR OWN SECRET SANTA EVENT
SKILLS/TOOLS: HTML, CSS, MySQLi, PHP, JavaScript, PhpStorm
- Secret Santa web application hosted on my own home server.
- Allows registered users to host their own Secret Santa by helping with everything from inviting other users to posting pictures after the party.

Powerball Picker | THE BETTER QUICK PICK
SKILLS/TOOLS: Python, BeautifulSoup, NumPy, PyCharm
- Web scraper that displays a histogram of Powerball draws of a given historical range and compares it to a random distribution of numbers within the same range of picks.
- Running the distribution against a randomly generated list of equal size 1000 times shows that the average difference in frequency for any given number is ±0.15.

Visu-rithm | VISUAL ALGORITHMS FOR THE CURIOUS PROGRAMMER
SKILLS/TOOLS: Swift, SpriteKit, Xcode
- iOS application that allows users to see visualizations of data structures and algorithms in motion.

Caesar Cipher Decoder | TEXT-BASED MESSAGE DECODING
SKILLS/TOOLS: C++, CLion
- Decodes a Caesar Shift encrypted text based message based on likelihood.
- Displays messages with only "English" words, based on the contents of a dictionary.

EXTRACURRICULARS

Davis Computer Science Club C++ Tutor   January 2017 - Present
- Provide guidance on various OOP concepts to students.