Luke Zhu

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EDUCATION

Brown University, Providence, RI   **May 2020**
B.S. Applied Math-Computer Science

Castro Valley High School, Castro Valley, CA   **June 2016**
GPA: 4.42/4 (weighted) 4.0/4 (unweighted)
SAT: 2330, SAT II: Math II (800), Chemistry (800), US History (800), Physics (800)

HONORS AND AWARDS

National Merit Finalist (2015), USA Computing Olympiad Gold Division Contestant (2015), USA Junior Mathematics Olympiad Qualifier (2014), Distinguished Honor Roll for the American Math Competition 12 (2015), Instrumental Music Faculty/Foundation Award (2016)

RELEVANT COURSEWORK

Honors Linear Algebra • Computer Science: An Integrated Approach • What's the Big Deal With Data Science • Basic Chinese • Structure and Interpretation of Computer Programs

WORK EXPERIENCE

Regal Entertainment Group, Floor Staff   **June 2016-August 2016**
Served concessions to customers in a timely, accurate fashion ensuring smooth theatre operations

Chang Bioscience Inc., IT Assistant   **August 2015**
Wrote a Python script which parses company sales data from Ebay and Amazon to calculate county and state sales tax owed

PROJECTS

Productivity App   **August 2016**
Created an iOS task management app that syncs to Google Calendar and schedules the tasks on the calendar
Used Swift and worked with Google API

Clothing Price Tracker   **August 2016**
Built a website tracking the prices of select clothing items with Django
Visualized pricing data using d3.js

USACO Contest Problems   **November 2014-January 2016**
Selected data structures and implemented algorithms to solve computing problems in restrictive time constraints
Used dynamic programming to solve a two channel queuing problem and implemented variations of Dijkstra's algorithm to find shortest paths in both sparse and dense graphs

SUPPLEMENTAL ACADEMIC ACTIVITIES

Ross Math Program   **June 2015-July 2015**
Studied number theory for 6 weeks at Ohio State University, learning how to write convincing, rigorous proofs

COMMUNITY SERVICE

Math and Science Club, Founder, President   **August 2014-June 2016**
Created and organized the high school math and Science Bowl teams; established and managed biweekly math practices for middle school students

Oakland Youth Orchestra, Member   **August 2012-May 2016**
Rehearsed weekly and performed in multiple concerts, including a tour to Argentina and Uruguay; raised funds for disadvantaged and homeless youth

SKILLS AND INTERESTS

Technical: C++, Python, HTML, JavaScript, Java, Scheme, C, Arduino Programming, Algorithms, Microsoft Office
Language: Conversant in Chinese and Spanish
Interests: Basketball, Skiing, Viola, Tennis