Ryan Luo

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Home: 586 Bella Vista Court, Fremont, CA 9453

Education:

Pomona College, Claremont, CA

Aug 2012-present

Bachelor of Science, GPA: 4.0

Computer Science Major

Relevant Coursework:

- AP Computer Science A, self-studied in place of CSI (Java)
- **CS II** (SML, python, C) (current grade: A)
- Calculus II (grade: A), Linear Algebra (current grade: A+)

Work/Volunteer and Leadership Experience:

Pomona College Molecular Biology Lab Research Assistant

Jan. 2013-present

Utilize molecular genetic approaches to engineer homing endonucleases

Pomona College Orchestra Manager

Aug. 2012-present

Organize 1500 pages of orchestra music and set up stage for 30 rehearsals and 4 concerts a semester

President of Impromptu Music Club in Mission San Jose High School

Dec. 2010-Jun. 2012

Arranged 30 performances with 100+ musicians (total) at 8 retirement homes for over 400 patients

Concertmaster of California Youth Symphony

Sept. 2010-Jun. 2012

- Student leader on an international tour to New Zealand, in charge of 150+ musicians
- Representative for the California Youth Symphony on the "Good Morning New Zealand" show

Projects:

College Event Calendar/Map

Nov. 2012

 Java-based with GWT plugin. Users click on the map in order to create an event, and the map would be viewable to all students at the college to give a spatial representation of campus events.

Chemical Reaction Calculator/Predictor

Dec. 2012

 Java-based with GWT plugin. User inputs (basic) chemical elements on GUI and program outputs products. Second tab predicts electrochemical reactions with spatial representation of galvanic cell.

Battle Ship Game and AI Player

Mar. 2013

Java-based with GWT plugin. A grid provides a layout for ship tokens that can move freely around the grid. Develop AI for ships to calculate "best moves" given one ship's location relative to another's.

Simple Encryptor

Aug. 2011

Java-based GUI. Users input strings, encryptor shifts all ASCII values of chars in string and adds them to ASCII values of chars in a "key," outputting a decode key and the encoded message.

Skills:

Familiar with programming languages Java, SML, C, Python, HTML/CSS

Experience with following tools: MS Office, Adobe Photoshop

Learning Cisco Certified Network Assistant (CCNA) Fundamental Networking material

Awards:

Pomona College Scholar Distinction

Jan. 2013

Academic distinction

Nominated for ID1 Paper Prize (Writing Prize at Pomona College)

Jan. 2013

Nominated for excellent student writing in the Pomona College ID1 mandatory writing course

Pomona College Concerto Competition

Nov. 2012

Competition open to the Claremont College Consortium for the Pomona College Orchestra

5C Bi-Annual Computer Programming Hackathon

Nov. 2012

Placed 2nd in a competition sponsored by Amazon, Originate, among others