William Y. Lee

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EDUCATION:

Current: Swarthmore College (CS, Math), Class of 2020
Previous: Palo Alto High School, Class of 2016

- (GPA: 3.98/4.00)

Relevant Coursework:

Swarthmore CS 35 Data Structures and Algorithms
Swarthmore College | August 2016 - December 2016

- Studied and implemented fundamental data structures and algorithms in C++
- Gained experience in C++, git, and pair programming through completing projects.

Stanford CS 161 Design and Analysis of Algorithms
Stanford University | June 2016 - August 2016

- Audited Stanford's CS 161 class on the Design and Analysis of Algorithms and received a final grade of A- in the class.

Webmaster, The Paly Voice, Palo Alto High School (palyvoice.com)
Palo Alto High School | August 2015 - June 2016

- Worked in a team of 4 to maintain and improve the Paly Voice news publication website.
  - Designed new home, author, staff, and search pages.
  - Used JavaScript to detect AdBlock and change page layout accordingly.
  - Acquired experience with unix, nginx, HTML/JS/SQL/PHP, wordpress, cloudflare.

AP Computer Science A: Covered the AP Computer Science curriculum at Palo Alto High School.
CS Capstone: Created a website for my high school's lost and found as my CS Capstone project.

WORK EXPERIENCE:

Staff Member, Swarthmore College Computer Society (SCCS)
Swarthmore College | November 2016 - Present

- Recently selected from a competitive pool of applicants for membership in the SCCS.
- Will help improve and maintain digital services for Swarthmore College.

Software Engineering Intern, NASA Ames Research Center
NASA Intelligent Robotics Group | June 2016 - August 2016

- Developed a web interface allowing mapping of control points between images taken by astronauts on the ISS to Google Earth satellite imagery using jQuery and the OpenSeadragon library.
- Implemented image manipulation (contrast/brightness adjustment, rotation, zoom, etc) to allow easier identification of landmarks to map between ISS imagery and Google Earth imagery.

Research Intern, NASA Ames Research Center
NASA Human Systems Integration Division| June 2015 - June 2016

- Studied human autonomic responses during simulated Orion spacecraft re-entry. Helped conduct research evaluating the effectiveness of Autogenic Feedback Training Exercises (AFTE) in mitigating motion sickness symptoms caused by spaceflight and microgravity.
- Programmed algorithms in SPL (for Dadisp) to automate and improve data processing efficiency in multiple data channels such as respiration rate and blood pressure by approximately 15%

SKILLS:

- C++
- Java
- Algorithms
- Python
- Unix
- Data Structures
- Git
- Full Stack Web Development

CS EXPERIENCES

- ACM-ICPC Mid-Atlantic Regional
- YHack 2016

AWARDS:

- National AP Scholar: Completed 8 AP exams with a score of 4 or higher.
- President's Volunteer Service Award (x2): Volunteered a cumulative 450+ hours over 4 years.