

Will Spencer

OBJECTIVE

To make meaningful contributions and to gain work experience in a programming, computer systems, chemistry, or related field.

EXPERIENCE

Computer Science Teaching Assistant (July - August 2016)

Assisted high school computer science teachers by planning and teaching lessons on data structures, graphics, GUIs, and game programming, along with helping students individually and grading coursework

STEM Tutor (September 2014 - Present)

Tutoring Bren Mar Park Elementary School students in STEM subjects, including lessons on atoms and light

Club Officer (June 2015 - Present)

Treasurer and Vice President of Poi Club, a performing arts club at Thomas Jefferson High School

Student Mentorship (August 2013)

Helped rising 7th graders get prepared for their first year in middle school by explaining differences between schools and organizing activities for a week through the Shifting Gears program

EDUCATION

Thomas Jefferson High School For Science and Technology, Alexandria, VA (September 2014 - Present)

AP and STEM Based School ranked #1 High School in America by *Newsweek*, 2016. Required a test, essays, and recommendations for admission

4.33 Weighted GPA

PROJECTS

Club Form Automator (December 2016 - Present)

Designed and implemented a web-based application to manage club registration and communication. This application allows club officers to register and log in to a central web site where they can view member information and send out emails to club members. I built this application using SQL, AJAX, PHP, JavaScript, HTML, BootStrap and CSS.

Social Media Analysis Application (November 2015 - January 2016)

As part of a Computer Science project, I designed and created a program, using the Twitter API, to find the most common words tweeted by any user and to rank presidential candidates by how often they are mentioned.

The Effect of Humic Acid Concentration on the Phototactic Speed of *Volvox globator* (September 2014 - June 2015)

Year-long biology research and experiment project on determining how humic acid concentration, a common pollutant, affects the phototactic speed, or movement towards light, of *Volvox globator*, a colonial algae.

Robot Project (September 2014 - June 2015)

As part of a technology and engineering project, I built and programmed a robot to compete in speed competitions and mazes. This project required the use of power tools and a design based on an arduino board.

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NOTABLE COURSEWORK

Computer Science

Honors Computer Science, AP Computer Science, Artificial Intelligence, and Web Application Development courses

Chemistry

Honors Summer Chemistry and AP Chemistry courses

Math

Statistics, Algebra, Geometry, Precalculus, and BC Calculus courses

AWARDS

PSAT (2016) Top 1%

Nationally with a score of 1510 out of 1520

National Spanish Exam

Award Scored in the 93rd (2015) and 84th (2016) percentile nationally

Academic Excellence

Award (2014) Given to students who achieve A's in all courses throughout middle school

American Legion School

Award Medal (2012) Given to the couple students who most exemplify leadership, service, and more

COMPUTER LANGUAGES

Java	Python
HTML	JavaScript
PHP	CSS
SQL	

LANGUAGES

Fourth Year Spanish Student