

# KEVIN ANDREW LYONS

Class of 2016 • Weymouth High School • 1 Wildcat Way, Weymouth, MA 02190 • CEEB 220745

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## PROFILE

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Focus in computer science on the side of software development and applied sciences...biochemical engineering and computational chemistry also demonstrate blend of CS with real-world, immediate application...passion for vertical mentorship and giving back to valuable community programs...pull individuals together with natural leadership by example...pave the way for future programs and opportunities, including underclassmen...altruistic mindset...diverse, well-balanced student, athlete, community member and professional...seeking to continue each of these characteristics at higher institution.

## ACADEMICS

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- ⌘ Graduation from Weymouth High School expected June 2016
- ⌘ Currently ranked 1<sup>st</sup> out of 505 students in the Class of 2016 with a weighted GPA of 4.8844
- ⌘ High scoring on standardized tests, including SAT Reasoning, SAT Subject Tests, AP Exams and ACT Plus Writing (*provided separately through respective score reporting services*)

## EXTRACURRICULAR WORK

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|--|--------------------------|-----------------------|
| ⌘ Varsity Football   | Senior Captain           | 2012 – Present        |
| <ul style="list-style-type: none"> <li>○ Senior starting captain at wide receiver and defensive back</li> <li>○ Thrive upon both the physical and mental aspects of the game, making lasting friendships along the way</li> </ul>  |                          |                       |
| ⌘ Varsity Basketball   | Senior Captain           | 2012 – Present        |
| <ul style="list-style-type: none"> <li>○ Senior captain, shooting guard</li> <li>○ Coached youth in my community in grades two through four for multiple years, giving back to a cause that has meant so much to me</li> </ul>   |                          |                       |
| ⌘ MIT Leadership Training Institute  | Keynote Speaker          | Spring 2015           |
| <ul style="list-style-type: none"> <li>○ Recommended and accepted to a selective leadership program on the Cambridge campus of MIT in the spring of my junior year</li> <li>○ 12-week program taught by current MIT undergraduate students, with the goal to help high-school students refine their leadership skills and develop a service-minded initiative in their respective communities</li> <li>○ As a result, went on to create the Beyond the Code program (<i>detailed below</i>)</li> <li>○ During the Closing Ceremonies of the program, I was selected as one of only three out of 50 students to present my findings in one of the largest lecture halls on campus.</li> </ul> |                          |                       |
| ⌘ Beyond the Code  | Director, Student Mentor | Spring 2015 – Present |
| <ul style="list-style-type: none"> <li>○ Founded the organization Beyond the Code in the spring of 2015, my junior year, as my assignment from the above mentioned MIT Leadership Training Institute</li> </ul>  |                          |                       |

- Unique computer science mentorship program that pairs knowledgeable and passionate high school students with those in grades 3-8 to develop an understanding of problem solving and logical thinking skills for future years
- Have reached 70 students to date, across 3 Weymouth Public Schools in grades 3-8
- Recruited 10+ high-school student mentors working under my guidance to support the vision of my program
- Worked alongside numerous district faculty, including the Director of Instructional Technology, Community Relations Liaison and principals at each of the three schools
- Presented my program to the town administration, including the Weymouth School Committee, to raise STEM Awareness
- Plan in place for upcoming years to create a sustainable, replicable mentorship program across the town

⊕ Advocate for STEM Education and Exposure

Spring 2015 – Present

*As a result of my work with Beyond the Code, I have been afforded several unique opportunities to share my findings and continue the STEM discussion in professional forums:*

- Along with two female STEM peers, facilitated an hour-long CS workshop to a dozen female students in grades 5-8
- Selected by the Director of Instructional Technology of the Weymouth Public Schools as a student advisor for the local STEM Community Compact, where I emphasized student self-advocacy as a catalyst for creating new opportunities

⊕ Math Team

Senior Captain

Fall 2014 – Present

- Awarded the 2015 Gold Medal for High Scorer, and completed a perfect score in a critical meet to help my team secure a victory
- 2015 divisional champions, a first for the program in 15 years
- Coordinating several new opportunities for my team to stay sharp and get the recognition, including those on social media and in the press, as well as attending new meets like the Worcester Polytechnic Institute Invitational Mathematics Meet and the Harvard-MIT Mathematics Tournament
- Enjoy the mental challenge and experience of working in a non-athletic environment with highly-motivated academic peers

⊕ Student Voice

Director

Spring 2015 – Present

- Recruited by Weymouth High School Principal to head the Student Voice program during junior and senior years
- Critical group on the Weymouth High School campus that seeks to empower students on a number of issues and encourage practical problem solving to meet administrators with resolution
- Facilitate discussion and topics at annual Student Voice Summit, to come in fall of 2016

⊕ Rotary International Involvement

May 2015 – Present

- Chosen to attend the annual Rotary Youth Leadership Awards (RYLA), where I further enhanced my leadership training and self-confidence, while learning the true nature of teamwork

- Invited to return to RYLA next Spring as a Student Leader as a result of my enthusiasm for the program

#### ⊕ Freshman Student Ambassador

Fall 2014 – Present

- During my junior and senior years, I oversaw a group of approximately thirty incoming freshman to make a smooth transition between middle and high school life.

#### ⊕ Volunteers in Practice (VIP) Organization

Fall 2014 – Present

- Two-year member of the Weymouth High School Volunteers in Practice organization, which seeks to celebrate the most outstanding students who work diligently in the realm of community outreach
- Served as a lead concierge for my Alma Mater elementary school in a recent town-wide field day, again giving back in a profound way for youth fulfillment

#### ⊕ Peer Tutoring

Fall 2014 – Present

- Through teacher recommendations and word of mouth, I have assisted over a dozen students ranging from grades 5-11 in many core academic topics, including multi-level math curricula, history and chemistry.
- Every peer who I work with has shown statistical improvement in test scoring.

#### ⊕ Special Olympics and Best Buddies Support

Spring 2013 – Present

- Four-year volunteer with Special Olympics, working in a leadership capacity to ensure a fun and rewarding time for all participants
- Raised funds for the Weymouth Best Buddies chapter through numerous community events
- Connections made within both of these critical organizations are a vital aspect of my high school career.

## PROFESSIONAL EXPERIENCE

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#### ⊕ LifeYield, LLC.

Software Engineer Intern

July 2015 – Present

- In the summer before my senior year, I completed an intensive paid internship at Boston-based financial computing firm LifeYield.
- Given task in a four-week timespan to complete a platform release of a back-end application for request handling on a SOAP XML facade service
- Allowed me to apply my knowledge of recursive definitions and file parsing while also picking up many new skills, including cross-thread UI callbacks, asynchronous iteration and improved model-view-controller separation
- Took direction along the way from supervising developers and adapted as necessary to dynamic feedback
- Presented final working application to supervisors in the Development and QA departments, as well as LifeYield's CEO and CTO
- *I will be returning to LifeYield for more work in the summer of 2016.*

## AWARDS AND ACHIEVEMENTS

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- ⊕ 2015 Rensselaer Medalist Spring 2015
  - Awarded the Rensselaer Medal from Rensselaer Polytechnic Institute in Troy, New York
  - Comes with a \$15,000 per year scholarship for each medalist who applies, is accepted and chooses to enroll at Rensselaer
- ⊕ National Honor Society May 2015 – Present
  - As a result of my number one class ranking, selected to be a part of the Weymouth High School Chapter of the National Honor Society
  - Will seek a presidential nomination in the fall
- ⊕ Bay State Conference All-Star, Football Fall 2014
  - In junior season, was named a first team all-conference selection for outstanding performance on both sides of the ball
- ⊕ Weymouth High School Student-Athlete of the Month October 2014
  - Unanimously named by coaches, teachers and administration across the district in fall of junior year
  - Provided me with a press opportunity in local media outlets to share my dual passion for studies and sports
- ⊕ MIAA Sportsmanship Summit Participant Fall 2013, 2014
  - Selected among an elite group of student-athletes in Massachusetts to attend the annual Massachusetts Interscholastic Athletic Association Sportsmanship Summit
  - Held at Gillette Stadium in Foxboro, Massachusetts by New England Patriots owner Robert Kraft
  - Offers a unique opportunity for student-athletes across the state to discuss areas for improvement not in terms of athletic talent, but rather integrity
  - Draw from this invaluable experience to develop current leadership skills

## SKILL PROFICENCIES

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*With respect to my computer science experiences...*

- ⊕ Proficient implementation of a diverse array of object-oriented C-based languages as well as other forms
  - Java (*including Android development*), C#, Objective-C (*including iOS development*), HTML (*including web development*), JavaScript, Python, CSS, XML (*including database implementation with pre-existing SQL server tools*)
- ⊕ Comfort with various version control services to enhance inter-developer collaboration, including standard SVN and GIT interfaces
- ⊕ Server management with SSH file updates
- ⊕ Flexibility between both GUI and native console applications
  - Implementation of MVC conventions when working with GUI interfaces
- ⊕ Diverse use of command line tools and custom shell scripts

## REFERENCES

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- ✚ For further links and documentation accompanying said experiences and achievements, please visit my website at <http://www.kevinalyons.com>.
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