Profile

Personal Information

Name	Boyer, Andrew *Stephen*
Share different name	No
Birthdate	09/21/2003
Pronouns	He/Him
Gender Identity	Male

Contact Details

Email, Phone	asboyer@gmail.com, +1.617-433-8537, Mobile, No other telephone
Permanent Address	31 Covered Bridge Ln Wayland, MA, 01778-3854, USA

Demographics

Sex	Male
Military Status	None
Hispanic or Latino/a/x	**No**
Race	**White** (Europe)

Language

English	First Language, Speak, Read, Write, Spoken at Home
Mandarin	Speak, Read, Write

Geography and Nationality

Citizenship Status	U.S. citizen or U.S. national
Birthplace	Cambridge, Massachusetts, United States of America (17 Years US, Years Non-US)

CA Fee Waiver

Fee Waiver Requested	No

Family

Household

Parents	Married
Home	Both Parents

Parent 1

Mother

Name	Mrs. Ashley F Boyer
Email, Phone	afboyer@gmail.com, +1.617-458-0206, Mobile
Occupation	Homemaker (full-time)
Education	Graduated from college/university Bachelors (1999), **Brigham Young University, Provo, UT, USA**

Parent 2

Father

Name	Mr. Stephen W Boyer
Occupation	Business executive (management, administrator), Employed, BitSight
Education	Graduate school Masters (2008), **Massachusetts Institute of Technology, Cambridge, MA, USA** Bachelors (2001), **Brigham Young University, Provo, UT, USA**

Siblings

1. Carson Boyer, Age 15

Education

Current or Most Recent Secondary School

Wayland High School, Wayland, MA, USA, Public, CEEB: 222255 (09/2018 - 06/2022)

Progression   No change in progression
Graduation Date   06/2022

Colleges & Universities

Grades

Rank   na / 196
GPA   3.865 / 4 , Unweighted

Current or Most Recent Year Courses

First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PHYS - **Advanced Placement Physics** - (AP)	PHYS - **Advanced Placement Physics** - (AP)	PHYS - **Advanced Placement Physics** - (AP)	PHYS - **Advanced Placement Physics** - (AP)
ENG - **Advanced Placement English** - (AP)	ENG - **Advanced Placement English** - (AP)	ENG - **Advanced Placement English** - (AP)	ENG - **Advanced Placement English** - (AP)
LANG - **Honors Mandarin 5** - (HON)	LANG - **Honors Mandarin 5** - (HON)	LANG - **Honors Mandarin 5** - (HON)	LANG - **Honors Mandarin 5** - (HON)
CALC - **Advanced Placement Calculus BC** - (AP)	CALC - **Advanced Placement Calculus BC** - (AP)	CALC - **Advanced Placement Calculus BC** - (AP)	CALC - **Advanced Placement Calculus BC** - (AP)
COMPSCI - **Honors Applied Computer Science** - (HON)	COMPSCI - **Honors Applied Computer Science** - (HON)	COMPSCI - **Honors Applied Computer Science** - (HON)	COMPSCI - **Honors Applied Computer Science** - (HON)

Honors

Eagle Scout	National	10

Achievement Awards - Best Academic Performance (Honors Mandarin & Honors English 2)	School	9, 10
Xerox Award for Innovation and Information Technology	State/Regional	11
Top 50, picoCTF National Competition (2,250+ teams nationally)	National	11
Gold Division, USACO	National	11

Future Plans

Computer programmer or analyst, Doctorate

Testing

SAT Tests

Evidence-based Reading and Writing	760	05/08/2021
Math	790	05/08/2021
Taken	1	
Planned	0	
SAT Essay	No	

AP Subject Tests

Computer Science A	5	05/2021
Statistics	4	05/2021
United States History	4	06/2021
Calculus BC		05/2022
English Literature & Composition		05/2022
Physics C Mechanics		05/2022
Physics C - Electricity & Magnetism		05/2022

Activities

Computer/Technology

10, 11, 12

School

7 hr/wk, 45 wk/yr

Continue

President, Wayland High School Computer Science Club

Lead club in all meetings, programming projects, computer science related lessons, lectures, and preparation for CTFs and coding competitions.

Internship

11, 12

School, Break

10 hr/wk, 32 wk/yr

Continue

Data Science | Product | Quality Assurance Intern, IntelyCare

Lead efforts to optimize processes for quality assurance and product development. Leveraged data science to propose new client organization.

Research

12

School, Break

10 hr/wk, 45 wk/yr

Continue

High School Researcher, Massachusetts General Hospital: Department of Neurology, Research (CDAC)

Work on medical research projects using data analysis & machine learning. Currently using patient data to determine the best drugs to treat epilepsy.

Work (Paid)

10, 11, 12

Year

7 hr/wk, 50 wk/yr

Continue

Staff Instructor, theCoderSchool

Teach students the fundamentals of programming through project and lecture based learning. Develop all curriculum and lead sessions of 1-5 students.

Community Service (Volunteer)

10, 11, 12

School

11 hr/wk, 12 wk/yr

Continue

Founder & Lead Organizer, Reboot Hacks

Organized virtual hackathon event, bringing 170+ students together from around the world. Received press coverage from Boston Globe and others.

Foreign Exchange

9, 10	Foreign Exchange Student in Beijing, China, Wayland-Jingshan Yuanyang School Exchange Program
School	
3 hr/wk, 35 wk/yr	Lived with host family for two months, awarded outstanding exchange student, transitioned to leadership position within the program upon return.
Continue	

Computer/Technology

10, 11, 12	Founder & CEO, CyberSummerCamp
School, Break	
9 hr/wk, 24 wk/yr	Founded a camp to teach students the basics of computers and cybersecurity. Partnered with the local Boys and Girls club in hosting free lessons.
Continue	

Robotics

9, 10, 11, 12	Co-lead Software Programmer & Lead Ambassador, FRC Team 5735: Control Freaks
School	
5 hr/wk, 30 wk/yr	Programmed fully-functioning robot for competitions. Lead outreach efforts within the community and served as liaison between sponsors and team.
Continue	

Journalism/Publication

10, 11, 12	Founding Podcaster & Featured Writer, Wayland Student Press Network
Year	
5 hr/wk, 35 wk/yr	Founded, produced podcast on NBA basketball with an average of 450+ listeners per episode. Featured as writer and journalist in the student newspaper.
Continue	

Athletics: JV/Varsity

9, 10, 12	Basketball, Athlete, Wayland Varsity Basketball Program
School	Started as guard for JV & Varsity team. Mentored younger teammates on shooting form and dribbling techniques.
15 hr/wk, 25 wk/yr	
Continue	

Writing

Personal Essay

The lessons we take from obstacles we encounter can be fundamental to later success. Recount a time when you faced a challenge, setback, or failure. How did it affect you, and what did you learn from the experience?

Pulling out of the driveway, we looked ridiculous. Protruding eight feet outside of our truck are the posts of a fully assembled, old-fashioned, "Green Monstah" baseball scoreboard.

When I finally finished the construction phase of my Eagle Scout project, I thought the hardest part was behind me. Planning, fundraising, and securing approval had been time-consuming tasks. All that remained was transporting the scoreboard from my garage to the baseball field. Back on the road, my dad drives as slowly as possible. But despite his best efforts, it's not enough to avoid the inevitable. *BAM!* The scoreboard posts completely flatten a speed limit sign.

While this was the biggest "speed bump" of my project, it wasn't the first. Seeking funding, I'd walked into a local bank in full Boy Scout uniform to propose my plan. They preferred email. Measurement errors, disorganized volunteers, and lack of tools were other unplanned setbacks during the construction stage. Even the last step, cementing the board into the ground, took hours longer than predicted. Our team stayed well past midnight, literally watching cement dry.

What if I hadn't pushed past these unforeseen difficulties and called it quits? Not only would I have missed out on a pivotal leadership opportunity, but a key life lesson. Whether it's a project, class, or relationship, it is inevitable that there will be unexpected, unplanned, and unwanted setbacks— and that's okay. The final outcome isn't determined by the obstacles you face, but how you push through and adapt— by re-cutting more wood, renting the missing tools, or replacing the flattened road sign. I've found this mindset useful in plenty of other situations, from jobs, to sports, to extracurricular activities.

Last year, when proposing the idea of a hackathon to our computer science club, I knew the event would take hours of strategic fundraising, careful planning, and fierce marketing. I accepted the role as project lead, relying on past leadership skills to guide me.

Some lessons were easy to implement. For fundraising, I returned to the bank that sponsored my Eagle Scout project, sending an email proposal this time. But, as the planning phase became more collaborative, it also became more complex. With my Eagle project, I made all the major decisions around design and construction. The hackathon was different. I had to build consensus with a team before any crucial decisions were made.

This complexity pushed me to think more creatively. My goal was for every member of the club to become as passionate as I was about our hackathon. Considering our club hadn't ever met in person due to the pandemic, this was difficult. But our virtual team meetings — sometimes more than twice a week —gave everyone an opportunity to make decisions and become invested in the project.

It wasn't perfect. We changed the final date several times and adjusted the schedule frequently. Delegating tasks was challenging— I had to trust others to get timely work done. But in the end, everything came together. The opening ceremony was a hit, the guest speakers were phenomenal, and the participants developed incredible tools that addressed the challenges of remote learning.

During the second hour of presentations, I realized we were facing a final setback. We'd allotted about half the time we needed for the final presentations and closing ceremony. As I messaged judges to ask if they could stay longer, I realized we were victims of our own success. We hadn't anticipated so many teams participating.

Whether it's hitting a speed limit sign with a massive scoreboard or forgetting to plan for success, no project will be completely smooth sailing from start to finish. These experiences in leadership have taught me to *expect* obstacles. When challenges arise, I'll always have a choice. I can give up or I can learn from my mistakes and continue moving forward... I choose the latter every time.

Additional Information

asboyer.com

As a hobby, I keep a personal website updated.

I built this website from scratch to learn the fundamentals of web development and I designed the color scheme, layout, and logos. I still find myself adding to my site quite frequently, as I use the website as a way to provide insight into the things I do and find interesting.

Building and maintaining this website has taught me a lot and it's been an influential experience. I've bounced around a couple of domain names and hosting services, and I have progressively improved the site's responsiveness and backend functionality. One notable memory about my website was finally securing my domain name. I've always had this username ("asboyer"), or sought after it, on any online platform I've used. So, when I saw that the domain name "asboyer.com" wasn't available, I was introduced to the world of domain names. I had to hire a domain broker, find the fellow asboyer on the internet that owned this name, and negotiate for weeks before asboyer.com was mine.

Here you can find more information about projects I've worked on, news articles I've been featured in, and my additional interests. Below I've provided links to some notable subpages on my site. Also, take note of the menu bar for navigating sections on the home page. I hope you enjoy!

Main website: https://asboyer.com/

* sections on this website include: (*Projects, Experience, Skills, Blog, Tools,* and *About*)

* like most of my projects, this website is open source, and all the code is on my GitHub: https://github.com/asboyer

Other fun subpages:

"Boyer's Blog": https://asboyer.com/blog

"Midnight" specifications: https://asboyer.com/tools/midnight

Notable press: https://asboyer.com/press

Favorite music: https://asboyer.com/music

Favorite movies: https://asboyer.com/movies

Favorite shows: https://asboyer.com/shows

I'm always updating the site, so by the time you're viewing this there might be some new things to check out!

builtwithcare.org

Another activity that I'd thought be worth mentioning is my National Honor Society project, "Built With Care."

During the hackathon I ran last year, I asked Jackie, a social worker, if she would speak during the opening ceremony. She works primarily with Latino children in need, and I asked her talk about how this population has been adjusting to remote learning and the challenges they are facing. This information was useful and impactful to the participants, as the goal of the hackathon was to write software that would reduce the struggles of remote learning. While Jackie did highlight a lot of the problems better software could solve, she also noted the biggest challenge: lack of access to hardware.

The experience of building my own computer led me to discover my passion for computers. Ever since, I've wanted others to have this experience this as well, as building a computer is a hands on way to learn how computers work.

After talking with Jackie after the hackathon, I knew that I wanted to combine both of these into a project, giving students an opportunity to build a computer, then donating the computers to people who need them. I proposed the project to Jackie, who loved the idea, and said she knew exactly the people who would greatly benefit from this.

At the moment I am writing this, I'm in the fundraising phase. Computer parts are quite expensive, so fundraising is a key component. I have left over funds we raised from the hackathon, and am also taking to social media to get the word out and find donations. To keep updated with the status of the project, check out our website, https://builtwithcare.org

Education Progression

Education progression details

No change in progression

Carnegie Mellon University Questions

General

Preferred start term	Fall 2022
Admission plan	Early Decision
Do you intend to pursue need-based financial aid?	No
Testing plan	I would like my SAT/ACT score(s) to be included as part of the consideration of my application
Early Decision Agreement	Yes, I have read and understand my rights and responsibilities under the Early Decision Process. I wish to be considered as an Early Decision candidate at Carnegie Mellon University. I also understand that with an Early Decision offer of admissions, this institution may share my name and my early commitment with other institutions. Andrew S. Boyer
Previous Candidate	No

Academics

College	School of Computer Science
Department or School	Computer Science (Offering Majors in: Computer Science, Computational Biology, Artificial Intelligence and Human-Computer Interaction)
AIME/AOIME/AMC Yes/No	No

Contacts

Previously applied	No
If you wish to be contacted via mobile phone, please provide your phone number. Contact methods may include phone calls generated from an automated telephone dialing system or text messaging.	I consent to be contacted by Carnegie Mellon University at the mobile phone number provided below.
Mobile Phone Number:	+1.617-433-8537

Family

Sibling applied No

Relatives attended member No

Have any relatives ever worked for Carnegie Mellon University? No

Parent different address No

Affirmations

By submitting this application, I affirm my understanding of and agreement to the statements found here: http://www.commonapp.org/affirmations.