

Ethan Zachary Lo

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Birth Date 09/09/2008

GPA

Weighted GPA: 4.559
UnWeighted GPA: 3.941
(up to May. 2024)

SAT 1510

Math 790; RW 720

SAT Superscore 1540

Math 790; RW 750

PSAT 1460

Math 760; RW 700

SKILLS

Java
Python
Web design
Cello
Tennis

LANGUAGES

English
Latin
Spanish
Mandarin

ACADEMICS

Walton High School

High School Junior Grade 11

STEM Student: Enrolled in the Advanced Math and Science program
with a focus in technology

AP Scholar with Distinction

School Activities

G10-11 – Cello Principal of the Walton Chamber Orchestra

G11 – Vice President of the Walton Asian Student Alliance

G9-11 – Vice President/Outreach Director of the Walton Academic Bowl
Club

G9-11 – Webmaster/member of the Walton Latin Club

G9-11 – Officer/member of the Walton Varsity Math Team

G9-present – Walton Varsity Tennis Team

STEM AP Classes

Georgia Tech Dual Enrollment Linear Algebra, A

Advanced Scientific Research, IP with A

AP Computer Science A, 5

AP Calculus BC, 5

AP Physics C: Mechanics, IP

AP Chemistry, 5

AP Environmental Science, 5

AP Seminar, IP with A

Advanced Finite Mathematics, A

AP Computer Science Principles, 4 with A

Non-STEM AP Classes

AP Human Geography, 5

AP United States Government and Politics, 5

AP Microeconomics, 5

AP United States History, IP with A

AP Latin, IP with A

Online School Classes

2024 – USACO Bronze, AoPS

2024-25 – USAPO, Dr. Yu

2023-24 – USNCO, Dr. Wang

2023 – AMC 10, AOPS

2021-22 – AMC 8, AllTop Academy

2020 – Introduction to Geometry, AoPS

2020 – Introduction to Algebra B, AoPS

2019 – Prealgebra 1 & 2, AoPS

Work Experience

2024-present – Mathnasium tutor, paid, G11

2022-present – Online tutoring, paid, 1:1 Math & Python

2022-2023 – Tennis coach, paid, 1:1 and Group

TECHNOLOGY

Education

2022-2026 – STEM program in the Advanced Math and Science Pathway

2018 – Georgia Tech summer camps for coding

2020-21 – Python, Java, Web design lessons from Dr. Chou (private tutor)

2022-23 – AP Computer Science Principles

2023-24 – AP Computer Science A

2024 – Governor's Honors Program with a major in music and minor in computer science

2024 July -Sept – Group research project with the Inspirit AI Scholars Program

2024-25 – Advanced Scientific Research Class (for web design)

Experience

2024 – Governor's Honor Program with a major in music and minor in computer science

2023-present – Member of the Walton High School's Computer Science Honor Society (CSHS)

2022-23 – Spotlight student selected by AP Computer Science Principles teacher at the Georgia Virtual School

2022 – GenCyber workshop for cybersecurity at Georgia State University with a full scholarship

2022-present – Created a website for the Walton Math Team

2016 – Member of the GMAC Robotics Team

Certificates

2022 Dec – Panther GenCyber Inspire Center at GSU

2024 – Inspirit AI Scholars Program with the *Searching for Exoplanets* Project

Awards

2024 – 1st place, Virtual Hackathon at Walton CS Honor Society, project title *Chatbot Using Domain Knowledge*

2024 – 2nd place in the North Cobb Technology Competition (NCTC) in the project programming category with his project, *Object Detection Using a Resource-Limited Device with Machine Learning*

2023 – participated in the NCTC in the project programming category with his project, *Predicting Tennis Match Results with Quantum Machine Learning*

2023 – A spotlight student for the Georgia Virtual School, recommended by Dr. Leah Kilgore, AP CSP teacher
<https://www.facebook.com/share/p/adWucw4A7s7nVNVc/?mibextid=WC7FNe>

2022 – 1st place in the Cobb Regional Technology Competition (CRTC) in the robotics category with his project, *Automated Garbage Collection Robot*

2022 – 3rd place in the Georgia State Technology Competition (GASTC) in the robotics category with his project, *Automated Garbage Collector with a Vacuum*

2021 – 2nd place in the CRTC in the robotics category with his project,

Gyroscopic Self-Balancing Robot

2016 – 1st place at the Regional FLL LEGO Competition and 3rd place at the Georgia state level.

Research

2024 – *Searching for Exoplanets Using Machine Learning*

📄 [Searching for Exoplanets Research Paper](#)

2024 – *Hurricane Predictor Using Machine Learning* (in progress)

Projects

2021 – *Gyroscopic Self-Balancing Robot*

2022 – *Automated Garbage Collection Robot with a Vacuum Mechanism*

[NCTC Project Programming Presentation 2024.pptx](#)

2023 – *Predicting Tennis Match Results with Quantum Machine Learning*

2024 – *Object Detection Using a Resource-Limited Device with Machine*

Learning 📄 [NCTC Project Programming Presentation 2024](#)

2024 – *Hurricane Predictor Using Machine Learning* (in progress)

MUSIC

Education

2012-2021 – Studied piano and music theory with Dr. Hsin-Lan Chien

2014- present – Studied cello with Guang Wang (Emory Vega Quartet), Wendy Warner (Curtis Graduate & CSU Cello Professor), and Daniel Laufer (cello principal at the Atlanta Symphony Orchestra)

Experiences

2024 – Georgia Governor's Honors Program, major in music (cello) and minor in computer science

2022-present – Cello Principal at the Walton High School Chamber Orchestra

2024 – Cello 3rd seat at the All-State Full Orchestra in Grade 9-10

2023-present – Cellist at the Atlanta Symphony Youth Orchestra

2023 – Cello Assistant Principal at the All-State Full Orchestra in Grade 9-10

2023 – Cello Principal, a subset string chamber orchestra of the ASYO

2023 – Performed as a part of the ASYO in the GMEA In-Service Conference Concert

2022 – Performed as a part of the Walton High School Chamber Orchestra at the Midwest Clinic Convention

2022 – Cello Principal at Georgia All-State Orchestra in Middle School division

2019-22 – Cello Principal at Dickerson Middle School

Summer Camps & Chamber Music Programs

2024 – Governor's Honor Program

2023 – Heifetz International Institute Summer Program

2022-present – Franklin Pond Chamber Music Program

2022 – Credo Music Festival at Oberlin Music Conservatory

2022 – Emory Vega Chamber Music Program

2022-2024 – Spitzenreiter Piano Trio

2020 – Atlanta Music Festival

Certificates

Note: ABRSM – Associated Board of the Royal Schools of Music; GMTA – Georgia Music Teacher Association

ABRSM Cello Diploma (youngest age at 15 to receive this honor in USA)

ABRSM Cello Grade 6 & 8 with Distinction Award (141/150)

ABRSM Piano Grade 5 & 8 with Distinction Award (134/150)

ABRSM Theory Grade 5 with Distinction Award (99/100)

GMTA Music Theory Test Grade 4 (99/100)

GMTA Outstanding Performer at the state level in Cello Solo, Instrumental Concerto Competition, and Piano Solo

Outstanding Performance at The Midwest Clinic, International Band and Orchestra Conference, Chicago, Illinois (2023)

Awards

Cello Solo/Concerto

2024 – 1st Alternate (2nd place) in GMTA State String Audition for Grades 10–11

2024 – 2nd Alternate (3rd place) in the GMTA Instrumental Concerto Competition

2024 – 3rd place with \$300 scholarship in Atlanta Music Club Scholarship Competition

2024 – Honorable Mention in the ASYO Concerto Competition

2023 – Excellence Prize, Appassionata at International Music Competition & Festival (Spitzenreiter Piano Trio)

2023 – 1st place and performed at Carnegie Hall as the First Place Winner at the American Protege International Concerto Competition

2022 – Outstanding Performer (4th place) in the GMTA Instrumental Concerto Competition

2020 – Outstanding Performer (2nd place) in the Georgia Musical Teachers Association (GMTA) State String Audition for Grades 6–7

2020 – 2nd place with \$300 scholarship at the Young Artist Concerto Competition of August Symphony

2020–2021 – Honorable Mention award (3rd place) in the 2020–2021 Junior String Performance Music Teachers National Association (MTNA) Competition at the Georgia state level

2021 – 2nd place at the Gulf Coast Steinway Society 2021 IV Music Competition

2018 – 1st place performing at Carnegie Hall for the National Maestro Piano/String Competition

Piano Solos

2018 – Won first place with a \$800 scholarship in the Steinway Piano Competition

2018 – Won first place with a \$300 scholarship in the Southern Piano Young Artist Competition

2015–2021 – Received Outstanding Performer award in piano auditions in local, regional, and state levels in the Georgia Music Teachers Association

Chamber Music – Spitzenreiter Piano Trio

Won first place at the Charleston International Chamber Music Competition

Won first place at the Franklin Pond Chamber Music Competition middle school division for a grand prize of a \$1000 scholarship

Won second place at the American Virtuoso International Chamber Music Competition, in which his group and he performed at Carnegie Hall in June 2023

Masterclasses

2022 – Performed Dvorak String Quartet “America, “ coached by Thomas Cooper

2022 – Performed Elgar Cello Concerto 1st movement, coached by Hans Jensen, a cello professor at Northwestern Bienen School of Music

2023 – Performed Elgar Cello Concerto 4th movement, coached by Thomas Mesa during his experience at the Heifetz International Music Institute Summer program.

2024 – Performed Lalo Cello Concerto, 1st movement, coached by Wendy Warner at Governor’s Honors Program

2024 – Performed Matz Cello Quartet, 1st movement, coached by Sergiu Schwartz with the Franklin Pond Chamber Music Program

Music Video Supplementals

Cello Solo

Dvorak: Cello Concerto in B minor, I. Allegro

<https://www.youtube.com/watch?v=ZsHiF3ZOCwA>

▶ Ethan Lo (15), Lalo Cello Concerto in D minor, 1st movement

▶ Elgar: Cello Concerto Op. 85. IV: Allegro-Moderato-Allegro, ma no...

Edward Elgar Cello Concerto in E minor, Op. 85., I. Adagio-Moderato

<https://youtu.be/72Zhs0iHrQU>

Bach Cello Suite No. 2, II. Allemande <https://youtu.be/7jw-tOASckY>

Chamber

▶ 2024 GHP Schmaltz Piano trio performed Astor Piazzolla - Primave...

Spitzenreiter Piano Trio, Dvorak Dumky Piano Trio, movements 1 & 2 at Kennesaw State University, May 2023 <https://youtu.be/c95gtZmXpJA>

Spitzenreiter Piano Trio, Dvorak Dumky Piano Trio, movts 1 & 2 at
Franklin Pond Chamber Music Competition at Shievy Hall, May 2023
<https://youtu.be/hZjRf5J8YPo>

Haydn Quartet No. 1 in G Major, Op. 77, No. 1, I. Allegro moderato at
Heifetz International Music Festival <https://youtu.be/2NKDrYOIooU>

Foreign Language

Experience

G8-9 – Spanish I and II

G8- present – Latin I, II, Honors Latin III, and AP Latin

Certificates

G9, G10 – Outstanding Performance in the National Latin Examination,
The American Classical League and the National Junior Classical League

Awards

Latin Awards

Note: GJCL - Georgia Junior Classical League; NJCL - National Junior
Classical League

2024 – 1st place in the GJCL Convention Website Contest

2024 – 2nd place in the GJCL Convention Ultimate Frisbee Contest

2024 – 4th place in the GJCL Convention PMAQ Exam

2023 – 1st place in the GJCL Convention Drawn Charts Contest

2023 – 2nd place in the GJCL Convention Drawn Maps Contest

2024 – 5th place in the GJCL Convention Charts Contest

2024 – Silver award in the NJCL National Classical Etymology Exam

2024 – 2nd place in the GJCL Convention Musical Latin Contest

2023 – Maxima Cum Laude award in the National Medusa Mythology Exam

2023 – Bronze award in the NJCL National Classical Etymology Exam

2023 – Summa Cum Laude award in the NJCL National Latin Exam

2023 – Silver award in the NJCL National Latin Vocabulary Exam

2023 – Bronze award in the NJCL National Roman Civilization Exam

2023 – 1st place in the GJCL Convention Musical Latin Contest

2023 – 3rd place in the GJCL Convention Latin Vocabulary Exam

2022 – Summa Cum Laude award in the NJCL National Latin Exam

Tennis

Statistics

Ranking WTN 28+ and UTR 6

2015-present – A competitive tennis player in the high-performance group at the Ginepri Performance Tennis Academy

G9-present – A member of Walton Tennis Varsity

Taught young children under the age of 12 tennis in private and group lessons

Awards

2016-present – Won many podium awards at the regional, state, and southern level tournaments

2024 – Walton HS Varsity Letter Award

Community Service

Certificates

2022 – A certificate of Leadership Training with 26 hours of completion by FASCA Atlanta (Formosa Association of Student Cultural Ambassadors)

Experiences

2023 – Performed chamber music at Taiwanese Tradition Festival week

2021-present – Taught young children under the age of 12 tennis in private and group lessons

2022-present – Played drums for the Lion Dance each year at Taiwanese Night Market event

2022-present – Managed a booth at the Taiwanese Night Market event with \$300-500 income for two nights annually

2022-23 – Performed cello solo and chamber music at 2-3 senior communities

2023-present – Taught students in grades 5-8 in coding by using Java and Python

2021-present – Taught young children under the age of 12 tennis in private and group lessons

Note: From neighborhood concerts to senior community center performances, Ethan gives back to the community by playing beautiful and touching music. In the 2022 Credo Music Festival, Ethan played in community service projects at numerous hospitals and senior communities. In 2023, Ethan performed in a community concert at his neighborhood community house. At Kennesaw State University in 2023, he voluntarily performed with his piano trio chamber group, the Spitzenreiter Trio, during the Taiwanese American Heritage Week

event. Furthermore, at the Ross Memorial Healthcare Center, he played a solo and chamber piece in an outreach concert for the elderly. In the 2023 ASYO String Chamber Orchestra, he performed at Piedmont Park to 10,000 spectators as a tribute to the community.

Other Certificates

2024 – International Logic Olympiad

2024 – Pride Rider Certificate from Walton High School