

---

# Zachary Baylin

---

✉ zachbaylin.in  
✉ me@zachbaylin.in  
☎ (770) 722-8911

155 Spalding Creek Ct.  
Sandy Springs, GA 30350

---

## Education

---

**North Springs High School**  
7447 Roswell Rd  
Sandy Springs, GA 30328

**August 2015 - May 2019**  
College Preparatory Diploma  
Math & Science Magnet Seal  
GPA: 101

**Georgia Tech Dual Enrollment**  
North Ave NW  
Atlanta, GA 30332

**August 2017 - May 2019**  
Math 1554 - Linear Algebra  
Math 2551 - Multivariate Calculus  
GPA: 4.0

---

## Honors & Awards

---

<b>FBLA State Competitor</b>	2019 - 1st, Coding and Programming
<b>FBLA National Leadership Competitor</b>	2018 - Mobile App Development
<b>National Honor Society</b>	2018 & 2019
<b>Principal's List (Honor Roll)</b>	2016 - 19
<b>AP Scholar w/ Distinction</b>	2018
<b>Georgia Certificate of Merit - top 5% of class</b>	2018
<b>FBLA State Competitor</b>	2018 - 4th, Mobile App Development
<b>Model UN State Competitor</b>	2018
<b>Georgia Best Worker Certification</b>	2018
<b>National Latin Exam Gold Medal</b>	2017 & 2018
<b>AP Scholar w/ Honor</b>	2017
<b>National Merit Commended Student</b>	2017

---

## Leadership

---

**Young Americans for Liberty (North Springs)**      **President (2018-19), Founder (2018)**

- Founded club to increase the political diversity and advocate lesser-known positions among students at North Springs High School
- Communicate with the organization's regional office leaders for resources, events, and to help with the formation of other high school chapters
- Organize regular meetings to discuss political activism and debate ideology
- Plan campaign events to organize volunteers to canvas for candidates
- Grew from three to fifteen members in one year

**Future Business Leaders of America (North Springs)**      **Vice President/Treasurer (2018-19)**

- Increased membership for the 2018-2019 school year
- Planned various fundraisers for the club itself and charities like March for Dimes
- Increased involvement in competitions

**UNICEF (North Springs)**      **Vice President (2018-19)**

- Increased membership for the 2018-2019 school year
- Organized fundraisers for the parent organization, such as Trick or Treat for UNICEF and a water-walk

- Managed the incoming funds and donation and reported them to the school and organization

## Work Experience

---

**Rolltrax, Atlanta GA** **August 2017 - Present**  
**CTO and Lead Developer, Co-Founder**

- Founded the company alongside a fellow student and a Work Based Learning coordinator
- Developed the main web software component using Crystal and ReactJS
- Wrote the front end in Python using the Qt for Python GUI framework
- Managed all operations, ensuring all servers and backends are up and running
- Managed all email, data backup, and load-balancing on Google Cloud Platform

**Fulton County Schools, Atlanta GA** **September 2017 - Present**  
**Network Engineer**

- Managed county-wide networking infrastructure using tools such as SolarWinds and HP Aruba
- Managed Ethernet layouts of schools with 1,000+ network points
- Managed WiFi access points and load balancing during high stress situations
- Wrote specialized software in Ruby
- Maintained sites with 2,000+ client and operated as a watchdog for multiple schools in the network

## Extracurricular Activities

---

**Future Business Leaders of America** **2018 & 2019**

- Developed a library app used to manage books and other media for library specialists and patrons of a library
- Wrote a cross platform mobile app using the Flutter mobile framework
- Developed proprietary sorting algorithms for media

**Science Olympiad** **2017 - 19**

- Competed in events related to computer science and electrical design against other high school students
- Built a hovercraft for competition

**SpartanHacks** **2018 & 2019**

- Taught students with a variety of knowledge concepts in computer science
- Helped organize the overnight Hackathon

**National Honor Society** **2018 & 2019**

- Tutored students in math and computer science

**Model UN** **2018**

- Research and discuss political systems and current events
- Debate with other students and competed in Model UN conferences

**Consortium for Mathematics and Its Applications** **2017 - 19**

- Participated in a 36-hour international competition to find the optimal solution to a complex mathematical problem

**Ian's Friends Foundation** **2016**

- Performed as a drummer in a band that played at multiple fundraisers to entertain donors and encourage them to donate to pediatric brain tumor research

## Self-Directed Projects

---

### **BookWorm**

**2019**

- Developed a Python/Qt application to help manage the distribution of eBooks
- Won first place at the 2019 Georgia FBLA SLC

### **bibliotech**

**2018**

- Developed a Flutter app to help students navigate and find more information about a library
- Won fourth place at the 2019 Georgia FBLA SLC

### **security-py**

**2018**

- Developed a Python program to pull data directly from the SEC
- Wrote algorithms to develop trend data for various securities

### **kiosk-rb**

**2018**

- Developed a kiosk application during my time as a Network Engineer at Fulton County Schools
- The program helps collect information about a device with faulty hardware/software and direct it to the proper channels

### **p5-snake**

**2018**

- Implemented the classic game of snake in the Javascript graphics processing library p5.js

### **rofi-wifi-menu**

**2017**

- Developed a tool to help Linux users join and manage their WiFi networks
- Garnered 50+ starts at the Github repo

### **Word Clock**

**2017**

- Created a word clock using an Arduino and an array of programmable RGB LEDs
- Wrote the C code to dynamically generate a sentence conveying the time

### **Arcade Machine**

**2017**

- Designed and constructed a custom arcade cabinet
- Wired a Raspberry Pi to arcade controllers and the cabinet's screen

## Interests and Skills

---

- **Interests:** Programming, Engineering, Politics, Economics, Philosophy, Origami, Jazz, Drumming
- **Programming Languages:** Python, Ruby, Javascript, Java, C, OCaml, Crystal, Lua, SQL
- **Frameworks:** Sinatra, Kemal, Flutter, ReactJS, ReasonML, Ruby on Rails, Pandas
- **Tools:** VSCode, ServiceDesk, Excel VBA