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# Zachary Baylin

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## Education

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### **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

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## Honors & Awards

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**FBLA National Leadership Competitor**  
**National Honor Society**  
**Principal's List (Honor Roll)**  
**AP Scholar w/ Distinction**  
**Georgia Certificate of Merit - top 5% of class**  
**FBLA State Competitor**  
**Model UN State Competitor**  
**Georgia Best Worker Certification**  
**National Latin Exam Gold Medal**  
**AP Scholar w/ Honor**  
**National Merit Commended Student**

2018 - Mobile App Development  
2018 & 2019  
2016 - 19  
2018  
2018  
2018 - 4th, Mobile App Development  
2018  
2018  
2017 & 2018  
2017  
2017

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## Leadership

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### **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

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### **Rolltrax, Atlanta GA** **CTO and Lead Developer, Co-Founder**

**August 2017 - Present**

- 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** **Network Engineer**

**September 2017 - Present**

- 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

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### **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

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### **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

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- **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