
Zachary Baylin

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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

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

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

Leadership

Young Americans for Liberty (North Springs)

President (2018-19), Founder (2019)

- 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

Work Experience

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

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

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+ stars 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