

# Zachary G. Baylin

✉ me@zachbayl.in • 📞 (770) 722-8911 • 📍 Atlanta, GA • 📧 zbaylin • 🌐 zachbayl.in  
U.S. Citizen

## EDUCATION

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**Georgia Institute of Technology** - Atlanta, GA

Expected Graduation May 2023

Candidate for B.S. in Computer Science

Concentrating in Systems Engineering & Theory

GPA 4.0

**North Springs Charter High School** - Sandy Springs, GA

Graduated May 2019

High School Diploma with Math & Science Magnet Seal

GPA 102/100

National Merit Commended Scholar

AP Scholar with Distinction

## WORK EXPERIENCE

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**Rolltrax LLC** • Atlanta, GA

August 2017 - Present

*Co-Founder & CTO*

- Develop all facets of the software stack, including the web API and frontend, mobile apps, and desktop app
- Founded the company alongside two other partners
- Beta tested the system at North Springs Charter High School in the 2017-2018 and 2018-2019 school years
- Expanded the use of the system to multiple schools and districts in the state of Georgia

**Fulton County Schools** • Fulton County, GA

August 2016 - May 2019

*Intern, Network Engineer*

- Managed the county-wide network of the school system
- Wrote custom in-house software to provide technical and hardware support to students and teachers
- Replaced aging network infrastructure with modern solutions
- Learned network structures and management while shadowing network engineer consultants

## PROJECTS

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- **BookWorm**: Created a GUI application for the 2019 FBLA Coding & Programming event, which helped librarians manage and distribute copies of DRM-protected eBooks. The project won first place at the Georgia FBLA SLC, and fifth place at the FBLA NLC.
- **Traveller**: In a team of two, created an application that solved specific implementations of the travelling salesman problem. Using OpenStreetMap data, we created a router using the greedy method and Dijkstra's algorithm to generate the shortest path between multiple points of interest.
- **SECurity-py**: Created a program to historically analyze trends between quarterly filings provided by the SEC. By evaluating quarterly 13F-HR forms, SECurity-py builds models of the decisions large investment funds make over time.

## EXTRACURRICULAR ACTIVITIES

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- **Future Business Leaders of America**: Participated in both the national and state level competitions in computer science-focused events. I also served as vice president and treasurer of the North Springs chapter, where I was in charge of helping other members prepare for their events, and managed the budget and club expenses.
- **Young Americans for Liberty**: Created the local North Springs chapter, which served as a model for other future high school chapters. I served as president for two years, where I helped organize club events, arranged activism programs, and spearheaded outreach campaigns.

## AWARDS

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- **FBLA Coding & Programming**: Received first place at the 2019 Georgia FBLA SLC and fifth place at the National Leadership Conference for my application BookWorm (see PROJECTS).
- **FBLA Mobile application Development**: Received seventh place at the 2018 Georgia FBLA SLC for my application bibliotech, which I developed in a group of two other people.

## SKILLS

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- **Languages**: OCaml, Ruby, Crystal, C, Nim, Python, JavaScript, ReasonML, Julia, Dart, Bash, Java
- **Technologies**: ReactJS, ReasonReact, Kemal, Sinatra, NumPy, SAGEMath, SQL (PostgreSQL & SQLite), Git, Linux, Flutter
- **Interests**: Quantitative Finance, Architecture of Systems, Discrete Mathematics, Functional Programming, Jazz, Drumming