

# ZACHARY BAYLIN

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## PERSONAL STATMENT

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Analytical and intellectually curious developer with a passion for mathematical problem-solving through programming

## EDUCATION

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

Expected Graduation May 2022

Candidate for B.S. in Computer Science

Concentrating in System Architecture & Theory

Major GPA: 4.0, Cumulative GPA: 4.0

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

Graduated May 2019

High School Diploma with Math & Science Magnet Seal

Top 10 out of 400

GPA 102/100

## WORK EXPERIENCE

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**Rolltrax LLC** Atlanta, GA

August 2017 - Present

*Co-Founder & CTO*

- Developed a full-stack SaaS solution for work-based learning coordinators and students to take attendance and manage their work. The system is composed of a Crystal web API and a ReasonReact frontend.
- Beta tested the system at North Springs High School over two years in order to determine the needs of our clients.
- Expanded the use of the system to over a dozen schools in the state of Georgia, where the system is relied upon for daily attendance

**Fulton County Schools** Fulton County, GA

August 2016 - May 2019

*Intern, Network Engineer*

- Managed and monitored the county-wide network of the 90+-school system, including outage detection & repair and new equipment provisioning.
- Wrote custom in-house software in both OCaml and Ruby to provide technical and hardware support to students and teachers.
- Removed dependency on Windows-based servers by utilizing Linux alternatives, specifically CentOS and RHEL.

## PROJECTS

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- **Revery**: Member of the organization which develops [Revery](#), a native cross-playform UI toolkit that uses technologies like OpenGL, Skia, and others to create a consistent UI experience across multiple platforms. The project leverages the ReasonML and OCaml platforms and integrates with both Javascript and C/C++.
- **BookWorm**: Created a GUI application using Qt and Python for the 2019 FBLA Coding & Programming event, which helped librarians manage and distribute copies of DRM-protected eBooks. The API backend was written in Crystal using the Kemal routing DSL, which integrated into a SQLite database.
- **SECurity-py**: Created a Python program to historically analyze trends between quarterly filings provided by the SEC. The program tracks holdings between quarters listed in 13F-HR forms and reports analytics over a specified period of time.

## 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).

## SKILLS

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- **Languages/Tools**: ReasonML, OCaml, Ruby, Crystal, Java, C, C++, Objective-C, Cocoa, PostgreSQL, Javascript, Sinatra, ReactJS, Linux, Win32/COM, Docker, Google Cloud, Dart, Flutter, Git
- **Relevant Coursework**: Object-Oriented Programming, Data Structures & Algorithms, Computer Organization & Design, Discrete Mathematics, Combinatorics, Number Theory & Cryptography