ZACHARY BAYLIN

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PERSONAL STATMENT

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

EDUCATION

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

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

– **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

– **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

– **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