ZACHARY BAYLIN

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Personal Statment

Analytical and intellectually 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
GPA 102/100, Top 10 out of 400

Work Experience

Outrun Labs LLC 📍 Remote   📅 May 2020 - August 2020
💼 *Software Engineer Intern*
- Helped to develop the Revery cross-platform GUI framework by deepening integrations into supported operating systems.
- Worked on Onivim2, a modal text editor based on `vim` which, at the time, was the principal software developed and sold by the company.
- Primarily wrote ReasonML, but also integrated with system APIs in C/C++ (Win32 & GTK3) and Objective-C (Cocoa).

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

- **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, Linear Algebra