

EDUCATION

Georgia Institute of Technology

B.S. in Computer Science, Major GPA: 4.0

Atlanta, GA

Aug 2018 – May 2021

- **Concentrations:** Computer Architecture & Embedded Devices
- **Selected Coursework:** Systems & Networks, Advanced Algorithms, Data Structures & Algorithms, Computer Organization, Objects & Design

EXPERIENCE

Two Sigma

Incoming Software Engineering Intern

New York, NY

May 2020 – Jul 2020

Google

Software Engineering Intern

Sunnyvale, CA

May 2019 – Aug 2019

- Acted on open-source projects' needs (e.g. LibSass) to design scalable solutions for creating WebAssembly libraries
- Created JavaScript ↔ WebAssembly bindings generator to enable the use of native C libraries in Node.js
- Coordinated efforts with members of the Node community to add WebAssembly support for Node's N-API
- Building support for interacting with WebAssembly programs in the V8 JavaScript Engine's API

Rolltrax

Founder, Software Engineer

Atlanta, GA

Nov 2017 – Present

- Designed and implemented a system to meet the needs of Work-Based Learning classrooms across Georgia
- Created attendance management system for student interns, utilized by North Springs High School since 2018
- Decreased average server latency by 86% and increased server throughput by 530% while adding new features
- Designed user-customizable dashboard for teachers to monitor attendance analytics and statistics

PROJECTS

- **Undergraduate Research:** Working under Dr. Vivek Sarkar and Caleb Voss in Habanero lab. Creating a system for compile-time deadlock avoidance using linear types.
- **Revery:** Served as a major contributor to Revery, a GUI framework for ReasonML attempting to bring Electron's ease-of-use to a native, cross-platform environment.
- **Quartz:** Designed and began implementation of a programming language for concurrent programming, targeting the Erlang/BEAM Virtual Machine and utilizing a novel algorithm to infer and type-check session types in distributed message-passing programs.

EXTRACURRICULARS

- **HackGT Operations Team:** Planned and executed bus transportation, curriculum, sponsor layouts, etc. for a 1000+ participant hackathon.
- **North Springs Hack Club:** Served as president for 2 years, focusing on teaching Scheme and JavaScript programming and successfully planning our first-ever SpartanHacks 24-hour hackathon in April 2018.
- **Future Business Leaders of America:** Competed at national and state levels for a variety of technology-based events and served as club treasurer during senior year. Helped grow our chapter to over 400 members, bringing it to Big 10 status in the Southern Region as well as Gold Seal status nationally.

AWARDS

- **FBLA Coding & Programming:** Received 1st place in Georgia for a "family entertainment center" application built to manage payroll, employee data, and customer statistics using F# and WPF.
- **FBLA Desktop Application Development:** Received 2nd place at Nationals for an F# application designed to help store and manage FBLA chapter records.

SKILLS

Languages: OCaml/Reason, Java, Ruby, F#, C#, Dart, Scheme, JavaScript, C, Haskell, Python, Scala, x86 Asm

Technologies: Functional Programming, OOP, Linux, Node.js, SQL (Postgres, SQLite), React, Google Cloud, Flutter

Interests: Compiler Design, Systems Programming, Quantitative Finance, Hip-Hop, Cooking, Travel