

Ohad Rau

<https://github.com/OhadRau>

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US/Israel Dual Citizen

EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
B.S. in Computer Science; Major GPA: 4.0 Aug 2018 – May 2021
 - **Concentrations:** Computer Architecture & Embedded Devices
 - **Fall '18 Courses:** Object-Oriented Programming, Data Structures & Algorithms, Discrete Mathematics
 - **Spring '19 Courses:** Computer Organization/Systems Programming, Objects & Design

EXPERIENCE

- **Rolltrax — Attendance Management Services** Atlanta, GA
Founder, Software Developer Nov 2017 – Present
 - Created attendance management system for student interns, utilized by North Springs High School since 2018
 - Designed user-customizable dashboard for teachers to monitor attendance analytics and statistics
 - Used Crystal, ReasonML, React and Postgres to implement the second revision of the website and backend
 - Increased user
 - Created two mobile applications for teachers and students using Dart and Flutter
 - Implemented badge scanning system using Python and Qt framework
- **Fulton County Schools** Atlanta, GA
I.T. Intern May 2016 - May 2018
 - Created county-wide kiosk system in OCaml and Ruby for student device technical support
 - Utilized ServiceDesk and Destiny APIs to interface kiosk with existing county systems
 - Used penetration testing methods to help secure network used by over 94,000 students
 - Assisted in preparing and monitoring network infrastructure for over 100,000 concurrent student/faculty devices

PROJECTS

- **Revery:** Serving as a main 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.
- **Nanocaml:** Designed and implemented a PPX-powered nanopass compiler framework for OCaml.

EXTRACURRICULARS

- **HackGT Operations Team:** Worked with a small team to plan and execute weekly HackGTedu workshops and “hack nights.” Participating in the planning process for the HackGT hackathon in the Fall.
- **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/ReasonML, Java, Ruby, F#, C#, Dart, Scheme, JavaScript/ES6, C, Haskell, Python, Prolog
- **Technologies:** Functional Programming, OOP, Linux, Debian, NixOS, SQL, React, Google Cloud, Flutter
- **Interests:** Compiler Design, Systems Programming, Quantitative Finance