

Ohad Rau

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EXPERIENCE

Fulton County Schools — *IT Intern*

May 2016 - PRESENT

Applied programming and technology skills to create a county-wide kiosk system for student device support, test school networks for vulnerabilities, prepare devices and network infrastructure for the school year, and give end-user support to teachers and students.

EDUCATION

Georgia Institute of Technology — *Move On When Ready*

August 2016 - May 2018

Studied advanced math courses through a dual-enrollment program, specifically taking: Linear Algebra, Multivariable Calculus, Applied Combinatorics, and Differential Equations

North Springs Charter High School — *Math & Science Magnet*

August 2014 - May 2018

Weighted GPA: 99.0980

Unweighted GPA: 94.5710

AP Classes: Human Geography, Statistics, World History, Calculus BC, Computer Science A, US History, Physics 1, Language and Composition, Literature and Composition, Psychology, Government, Macroeconomics

PROJECTS

Nanocaml — *Compiler Framework for OCaml*

Designed and implemented parts of a compiler framework for OCaml based on the Nanopass framework for Racket and Scheme.

Rolltrax — *Work-Based Learning Attendance Management System*

Implemented the Rolltrax attendance management system for work-based learning teacher, utilizing Ruby and Sinatra to create a customizable web-based interface with attendance statistics.

SKILLS

Creativity, Leadership, Problem-Solving, Teamwork

Linux/UNIX (Debian, Ubuntu, NixOS, Gentoo, RedHat)

Object-Oriented Programming (C#, Java, PHP, Ruby)

Web Design (HTML, JavaScript ES6, CSS)

Functional Programming (Haskell, OCaml, Racket, Scheme)

Other Programming Languages: C, Prolog, R, Rust, SQL, TeX

Compiler Design & Implementation

Systems Programming

AWARDS

1st Place Coding & Programming FBLA State (February 2017)

Created an application for a family entertainment center to manage payroll, employee data, and customer statistics using F# and WPF

Quartz — Session-Typed *Programming Language*

Designed and implemented 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 order to verify safety of distributed message-passing before executing code.

EXTRACURRICULARS

Computer Science Club/Hack Club — *President*

Helped expand the North Springs Computer Science Club with new tutoring opportunities in Lua and Scheme, game design activities, and labs, partnering with the national Hack Club organization to increase availability of resources.

Future Business Leaders of America — *Treasurer*

Won state and national competitions sophomore and junior year and joined the officer team senior year as treasurer, helping to recruit hundreds of new members and fundraise thousands of dollars in order to grow the chapter.

Young Americans for Liberty — *Vice President & Co-Founder*

Helped found a North Springs chapter for Young Americans for Liberty, a national libertarian student organization, in order to promote the spread of unusual political ideas and promote political awareness at school.

SUMMER PROGRAMS

Stanford Summer Institutes — *Discrete Mathematics (July 2016)*

Attended a three-week summer program at Stanford University studying Discrete Mathematics with Professor Marina Shapiro.

HACKATHONS

PennApps — *September 2017*

Created a mobile application for image-editing using an online machine-learning service and React Native.

CodeDay Atlanta — *February 2017*

Developed an application similar to SnapChat for self-deleting audio messages using Ruby and Sinatra.

2nd Place Desktop Application Programming FBLA Nationals (June 2016)
Created an FBLA chapter-management application in F#

1st Place 2014 NS Science Fair (December 2014)
Experiment in robot path-finding using machine learning methods

LANGUAGES

English - Fluent
Hebrew - Fluent
Latin - Elementary