

Aaron GOIDEL

Computer Science Student

✉ aarongoidel.com
@ acgoidel@gmail.com
📍 New York, NY / Toronto, ON

Creative and driven computer science student with loves for learning and problem solving. Experience working in teams creating new technologies; strong leadership and presentations skills, and equally strong technical ability. Interested in machine learning, operating systems, and in working to apply computer science to areas of passion, such as law, food, and music, in new ways.

PROFESSIONAL EXPERIENCE

Summer 2020	Backend Engineering Intern HIGHSNOBIETY New York, NY
	<ul style="list-style-type: none">> Wrote and maintained web scrapers to collect product data from retailer websites and product feeds> Improved memory performance of company's existing feed parsing infrastructure by ~75%
June 2019 August 2019	Cybersecurity Research Intern NATIONAL SECURITY AGENCY Fort Meade, MD
	<ul style="list-style-type: none">> Authored a patch in the Linux operating system, implementing a security hook and permissions for controlling file system watches, including corresponding test suite> Experimented with machine learning models to estimate the proximity of Bluetooth Low Energy enabled IoT devices in obstructed spaces> Presented progress and findings to groups of researchers in technical briefings
November 2016 August 2017	Lead Coding Instructor MONTCLAIR LEARNING CENTER Montclair, NJ
	<ul style="list-style-type: none">> Taught coding in after school and summer programs to primary and middle school aged students> Created and executed lesson plans in Scratch, App Inventor, and Python> Interfaced with parents on a weekly basis about student's progress> Oversaw work done by junior employees

EDUCATION

September 2019 Current	Current Student UNIVERSITY OF TORONTO
	<ul style="list-style-type: none">> Current second year student seeking a Bachelor of Science in Computer Science with minors in Pure Mathematics and Linguistics> GPA : 3.97/4.00> 2019-2020 Dean's List> Expected graduation : Spring 2023> Member of the Mathematics and Computer Science Society
September 2015 June 2019	High School MONTCLAIR KIMBERLEY ACADEMY
	<ul style="list-style-type: none">> Graduated with a GPA of 3.75/4.0> Classes included : AP Physics C, AP Calculus AB, AP Computer Science A, AP Chinese, Data Structures and Algorithms> Leadership roles in several organizations including : Mock Trial (lead lawyer and captain), STEM Team (president), School Newspaper (chief digital editor), Committee for Educational Technology

TECHNICAL SKILLS

PROGRAMMING LANGUAGES C, Python, JavaScript (NodeJS, React, React Native), Java
PLATFORMS & TECHNOLOGIES Git (GitHub), Unix Command Line, LaTeX
SPOKEN LANGUAGES English (native), Mandarin (intermediate)

CERTIFICATIONS

U.S. TOP SECRET//SI//TK SECURITY CLEARANCE Including full-scope background investigation, polygraph examination, and psychological evaluation

APPLE CERTIFIED MAC TECHNICIAN

RED CROSS CPR/AED CERTIFIED

HONORS, AWARDS, AND ACHIEVEMENTS

2017, 2018, 2019	Lockheed Martin Code Quest competition champion (New Jersey, Advanced Division)
2016, 2017, 2018	Agile Youth Hackathon champion
2019	Montclair Kimberley Academy commencement award in Computer Science
2018	Essex County Mock Trial champion

PROJECTS

SAFESEND

 github.com/MKA-Stem/ayc-galvanize

SafeSend utilizes two-factor-authentication and multi-layer encryption to generate secure links to data, ensuring it is only accessible by the intended recipient

JavaScript ReactJS NodeJS Twillio

FSNOTIFY LSM HOOK

 [Patch on lore.kernel.org/](https://lore.kernel.org/)

Implemented a new security check to Security-Enhanced Linux and the Linux Kernel which adds fine-grained control over the setting of watches on file system objects

C SELinux Kernel Linux Security Module

COOKIE

Combining my passions for computer science and food, Cookie is a native smartphone app which applies graph theory to recipes, resulting in a dynamic cookbook. By treating recipes as a dependency graph, instead of as a static block of text, Cookie can combine, and simplify recipes to maximize efficiency in the kitchen

React Native Typescript Graph Theory Mobile App