

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, linguistics, operating systems, and in working to apply computer science to areas of passion, such as law, food, and music.

PROFESSIONAL EXPERIENCE

December 2020 Current	Product Engineer MLKMN <ul style="list-style-type: none">> Working to create onboarding and backend tools for a small (< 10 employees) startup> Coordinate with business leadership to recommend and implement new technologies> Develop logistics software to support operations team> Manage the technology end of projects related to user onboarding	Remote
July 2020 Current	Junior Software Engineer HIGHSNOBIETY <ul style="list-style-type: none">> Junior Engineer creating a pipeline for retail product data collection> Implemented, maintained, and improved upon web scraping and data parsing infrastructure for increased performance in data collection from retail partners—with performance increases of up to 80%> Served as an interface between content and engineering teams to prioritize data collection and processing needs> Assessed and performed triage for critical systems in real-time	New York, NY
June 2019 August 2019	Cybersecurity Research Intern NATIONAL SECURITY AGENCY <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 20+ researchers in biweekly technical briefings	Fort Meade, MD
November 2016 August 2017	Lead Coding Instructor MONTCLAIR LEARNING CENTER <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	Montclair, NJ

EDUCATION

September 2019 April 2023 (expected)	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 : 3.91/4.00> Member of the Mathematics and Computer Science Society> Contributing opinions writer for The Medium (school newspaper)> Relevant course work : Theory of Computation, Software Design, Communication Skills for Computer Scientists, Project Management, Syntactic Patterns in Language, Syntax, Data Structures and Analysis, Computer Organization
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, Go

PLATFORMS & TECHNOLOGIES Git (GitHub), Unix Command Line, LaTeX

TECHNICAL SKILLS Agile, Scrum, Web Scraping, OOP, SOLID

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



2021	UofT Hack The Case Competition 1 st Place
2021	UofT PyJaC Coding Competition Advanced Champion
2019-2020	Dean's List
2019-2020	Math and Computer Science Honour Roll
2019	Montclair Kimberley Academy commencement award in Computer Science
2018	Essex County Mock Trial champion
2017, 2018, 2019	Lockheed Martin Code Quest competition champion (New Jersey, Advanced Division)
2016, 2017, 2018	Agile Youth Hackathon champion

PROJECTS

SIMULATING GALAXIES

 github.com/AaronCGoidel/n-body

A physics simulation of n particles illustrating the formation of galaxies after a big-bang like event. Written in pure C, this simulation is optimized to faithfully simulate 100,000+ particles on just a laptop.

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

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

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 reimagining 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