

Education

Columbia University, School of Engineering and Applied Science

Graduating May 2023

Data Structures and Algorithms in Java, Introduction to Operating Systems (Princeton CS217), Linear Algebra

Montgomery High School – Valedictorian (GPA: 99.59%)

Graduated June 2019

AP (5) : Computer Science, Chemistry, Calculus BC, Physics C Mech & E&M, Language and Composition, Biology, Macro & Micro, ACT : 36

Experience

BLOOMBERG SOFTWARE ENGINEERING INTERNSHIPS

BGOVERNMENT

JUL 9 - AUG 23 2019

Improved existing NLP models by researching and applying word-vector representation embeddings.
Created foundational tool to detect partisanship with 90% acc. using Python, Tensorflow, and Conv Nets.
Worked on a side project to conduct face verification with internal images using AWS Rekognition.

DT WEB ACQUISITION 1

JUL 9-AUG 31 2018

Created online IDE feature for custom web-crawling schemes.
Utilized Kafka, ReactJS, NodeJS, and headless browsers for real-time debugging interfaces and custom Intellisense.

GRADECHECK

2015-PRESENT

Created a mobile student interface for the Montgomery grade-book system.
Integrated push notifications, personal calendar integration, and statistical analysis into a uniform experience.
Designed APIs and native iOS and Android apps alongside a NodeJS and MongoDB stack. Published on the App Store (GradeCheck Montgomery) with over 2.4k users.

ROBOTICS 1403 PROGRAMMING TEAM

2015-2017

Won District Chairman's Award 2016.
Utilized WPI libraries to control and automate hardware components.
Created computer vision algorithms for autonomous motion mapping with OpenCV, Raspberry Pi, and auxiliary sensors.

SERVICE & COMMUNITY

2015-PRESENT

Co-founded MontyHacks, a hackathon to spread passion for Computer Science.
Organized a Scratch Kids Bootcamp and tutored students in languages like Java, hardware like Arduino, and competitive programming as Vice-President of the Computer Science Club.

Awards

USACO GOLD DIVISION QUALIFIER

Used Data Structures and Algorithms in Java and Python for National HS Programming Competition

WWDC 17 & 19 SCHOLARSHIP

Was one of the 300 scholars selected by Apple to attend the 2017/19 Worldwide Developers Conference through submission of a 3D- modeled Solar System and Pictionary AI Game Interface respectively.

PENNAPPS XVIII - TOP 30 WINNER ([HTTPS://DEVPOST.COM/SOFTWARE/SUPERMARITAN](https://devpost.com/software/supermaritan))

Designed an emergency response application empowering community participation.

HACKPRINCETON - MOST SUSTAINABLE, FACEBOOK DATA FOR SOCIAL GOOD ([HTTPS://DEVPOST.COM/SOFTWARE/HOMEGROWN-SUK9LQ](https://devpost.com/software/homegrown-suk9lq))

MHACKS NANO - TOP 12 WINNER (TABWATCH : [HTTPS://DEVPOST.COM/SOFTWARE/NANO](https://devpost.com/software/nano))

Created helpful productivity chrome-extension to monitor excessive internet usage.

MHACKS X - CALARIE : ([HTTPS://DEVPOST.COM/SOFTWARE/CALARIE](https://devpost.com/software/calarie)) ARKIT APPLICATION

PENNAPPS XV - HONORABLE MENTION (INNATA: [HTTPS://DEVPOST.COM/SOFTWARE/INNATA](https://devpost.com/software/innata)), SMART FINANCE

Languages

Skills

	BACKEND	FRONTEND
Python		
Java		
JavaScript	Node JS & Express, Flask	iOS Development (Swift and Obj-C) and Sketch
C	Databases & Metrics (MongoDB, PostgreSQL)	React (JS, Native) and Redux
Swift		
Objective-C	REST API Development	Android Development
Pug		
HTML5, CSS3	Tensorflow (Python / Keras, Javascript)	Web Design, JQuery, Bootstrap, JSX, EJS