

## 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

Member of: Columbia Quant Group, Application Development Initiative

*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

Python

Java

JavaScript

C

Swift

Objective-C

Pug

HTML5, CSS3

### BACKEND

Node JS & Express, Flask

Databases & Metrics (MongoDB, PostgreSQL)

REST API Development

Tensorflow (Python / Keras, Javascript)

### FRONTEND

iOS Development (Swift and Obj-C) and Sketch

React (JS, Native) and Redux

Android Development

Web Design, JQuery, Bootstrap, JSX, EJS