

# Alex J Wang

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## EDUCATION

### DUKE UNIVERSITY

#### BS IN COMPUTER SCIENCE AND ECONOMICS

Class of 2023 | Durham, NC

Trinity College of Arts and Sciences

Cum. GPA: 3.86 / 4.0

Major GPA: 4.0 / 4.0

### OBRA D. TOMPKINS HS

Grad. May 2019 | Katy, TX

Cum. GPA: 4.84

Rank: 3 / 800

## SKILLS

### TECHNICAL SKILLS

Proficient with:

Java • Python3 • Flask  
Javascript (ES6) • React • Node.js  
MongoDB • HTML5 • CSS3  
MaterialUI • Bootstrap • Git  
C • Assembly • Agile (Scrum)  
Shell • Jenkins • OpenShift

### SOFT SKILLS

Outstanding:

Verbal communicator and writer  
Leader • Motivator • Team Player

## COURSEWORK

### UNDERGRADUATE

Data Structures and Algorithms  
Computer Architecture  
Multivariable Calculus  
Linear Algebra  
Macroeconomics  
Microeconomics

## VOLUNTEER WORK

### KATYISD TENNIS CAMP

Summer 2018 2019 | Katy, TX

- Volunteered as a tennis coach at KatyISD Tennis Camp.
- Worked with children ages 6-14.
- Coordinated warm-up activities and various groundstroke drills.

## EXPERIENCE

### OPTUM | SOFTWARE ENGINEERING INTERN

June 2020 – August 2020 | Raleigh, NC

- Developed a full stack web application with React/Flask/MongoDB that fosters collaboration between developers on inner source libraries.
- Created RESTful API microservice using Flask to access NoSQL database.
- Taught myself how to deploy applications on OpenShift with Jenkins pipeline.
- Communicated with team members and organization leaders to leverage business resources in order to finalize production-ready solution.

### QUESTED | IOS DEVELOPER

September 2019 - January 2020 | Durham, NC

- Worked with team to develop an iOS application that teaches young children about leukemia.
- Practiced writing tests for Swift applications.

## TECHNICAL PROJECTS

### REACT PATHFINDING VISUALIZER | WEBSITE, GITHUB

Spring 2020 | Houston, TX

- Developed a Reactjs application that visualizes famous pathfinding and maze-generation algorithms.
- Implemented Dijkstra's algorithm, bidirectional search, depth first search, breath first search, and recursive maze division.

### POOL PARTY | WEBSITE, GITHUB

Fall 2019 | Chapel Hill, NC

- Developed a full stack web application that connects students in the Research Triangle Area (NC) who want to carpool to RDU International Airport.
- Utilized ReactJS, Node.js, Express, MongoDB, and Bootstrap.
- Built at HackNC Hackathon (UNC Chapel Hill) and collaborated with two teammates using Git as version control.

### YANGTRACK | WEBSITE, GITHUB

Fall 2019 | Durham, NC

- Developed a web application that fetches tweets regarding Andrew Yang from the official Twitter API and performs sentiment analysis on the data.
- Utilized chart.js npm package to visualize sentiment analysis data.
- Built in ReactJS, Node.js, and Express.

## AWARDS

2019	National	National Merit Finalist
2019	National	National AP Scholar
2018	National	1st place in Financial Math   Future Business Leaders of America
2018	State	1st place in Remote Sensing (Spatial Mapping) Texas Science Olympiad State Tournament