

# Jeffrey Zhang

## Student

Aspiring software developer interested in robotics, artificial intelligence, and machine learning. Experienced in both frontend and backend programming, in addition to CAD design, and machine shop work.

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## EDUCATION

### Bachelor of Computer Science Georgia Institute of Technology

08/2021 - Present

Atlanta GA

#### Courses

- Data Structures & Algorithms
- Linear Algebra

### Highschool Diploma Mountain Lakes Highschool

09/2017 - 06/2021

Mountain Lakes NJ GPA: 4.6

#### Courses

- Multivariable Calculus
- Physics
- Computer Science

## WORK EXPERIENCE

### Research Intern Nanobiotec LLC

06/2018 - 08/2021

Drug Screening and Drug Discovery Company

#### Achievements/Tasks

- Assisted in lab procedure including PCR, western blot, Gel electrophoresis
- Responsible for cell culturing with sterile technique
- Helped with data collection and analysis

### Camp Counselor Mountain Lakes Makerspace

06/2017 - 08/2018

Mountain Lakes NJ

Local Summer Camp that taught engineering skills to younger children

#### Achievements/Tasks

- Taught Middle School Aged children 3D design and 3D printing skills
- Lead discussions and lesson about robotics
- Taught students programming in python

## ORGANIZATIONS

Mountain Lakes Robotics Team (09/2017 - 06/2021)

Team Captain

Entrepreneurship & Finance Club (09/2017 - 06/2021)

## SKILLS

Java

C++

Python

HTML/CSS/JS

Web Development

Solidworks

3D modeling

3D printing

SQL

ReactJS

Microsoft Office Suite

## PERSONAL PROJECTS

### Robotics Path Planning (09/2017 - 06/2019)

- Implement Dijkstra's algorithms and its variations A\* and D\* for graph traversal.
- Built a simulated robot environment using the Java Processing 3 Library.
- Programmed Pure Pursuit line following algorithm and utilized PID loops for motor control.

### Big Number Library (05/2020 - Present)

- Created an arbitrary large number library using C++
- Implemented basic operators and helper functions

### Web Development (01/2017 - Present)

- Built dashboard using ReactJS
- Learned about MEAN tech stack
- gained experience using SASS and Typescript

## CERTIFICATES

### Solidworks CSWA (12/2018 - Present)

Certification in Solidworks 3D CAD modeling

## LANGUAGES

English

Full Professional Proficiency

Chinese

Professional Working Proficiency

## INTERESTS

Robotics

Machine Learning

Automation

Physics

Biotechnology

App Development