

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
- Object Oriented Programming
- Linear Algebra
- Calculus

Highschool Diploma Mountain Lakes Highschool

09/2017 - 06/2021

Mountain Lakes NJ GPA: 4.6

Courses

- Multivariable Calculus
- Computer Science
- Physics

WORK EXPERIENCE

Research Intern Nanobiotec LLC

06/2019 - 08/2021

Drug Screening and Drug Discovery Company

Achievements/Tasks

- Assisted in lab procedures including PCR, Western Blot, Gel electrophoresis, etc.
- Responsible for data collection and analysis with Excel.
- Helped build company website.

Camp Counselor Mountain Lakes Makerspace

06/2017 - 08/2020

Mountain Lakes NJ

Local Summer Camp that taught engineering skills to younger children

Achievements/Tasks

- Taught middle school children 3D design and 3D printing skills.
- Lead discussions on robotics and taught basic programming.
- Assisted students in troubleshooting errors and problems.

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

Certified SolidWorks Associate (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