

# Nick Clifford

BACK-END DEVELOPER · SYSTEM ADMINISTRATOR

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## Summary

Rising junior at MICDS (Mary Institute and St. Louis Country Day School). Exceptional student in math, science, engineering, and Chinese. 3 years in overall programming experience. Proficient in JavaScript, Ruby, database administration, and Linux administration. Seeking a summer job to begin after June 12.

## Projects

### MyMICDS

[Website](#)

CO-CREATOR, BACK-END DEVELOPER, SYSTEMS ADMINISTRATION

May 2015 - Present

- A portal for organizing student life at MICDS. Includes a digital planner, schedule calendar, and the lunch menu.
- Entirely student-built and administrated.
- Built with the MEAN (MongoDB, Express, Angular, Node.js) stack.
- Used by >2/3 of the student body at MICDS.
- Amazon Alexa skill available for accessing MyMICDS purely via voice control.
- Source code hosted at <https://github.com/MyMICDS/MyMICDS-v2>, website hosted at <https://mymicds.net>.

### Pear Tutoring

[Website](#)

TEAM MEMBER

Nov. 2016 - Apr. 2017

- A collaborative, peer-to-peer solution for bringing together tutors and tutees into one destination that allows for efficient scheduling and real-time collaboration on a synchronized whiteboard.
- Built with Angular and Firebase.
- First place winner at World Wide Technology STEM Student Forum Hackathon.
- Source code hosted at <https://github.com/michaelgira23/Pear-Tutoring>, website hosted at <https://peartutoring.net>.

### Ohm

[Programming Language](#)

LEAD MAINTAINER

Feb. 2017 - Present

- A concise programming language specializing in code golf.
- Written in Ruby.
- Entirely open source with a community of users surrounding it.
- Source code hosted at <https://github.com/nickbclifford/Ohm>, online interpreter hosted at <https://tio.run/#ohm2>.

### navigatAR

[iOS Application](#)

TEAM MEMBER

Jan. 2018 - Feb. 2018

- An iOS app that leverages the power of augmented reality to provide indoor directions to rooms and events inside a campus or venue.
- Built with Swift 4 and Firebase.
- Third place winner at World Wide Technology STEM Student Forum Hackathon.
- Source code hosted at <https://github.com/michaelgira23/navigatAR>.

## Extracurricular Activities

### ROBOTICS

#### Technoramic - FTC #5190

[FIRST Tech Challenge Team](#)

PROGRAMMER

Sep. 2017 - Present

- A FIRST Tech Challenge robotics team representing MICDS.
- Participate in FTC meets around the country and engage in community outreach activities throughout the year.
- Attended the FTC World Championships in St. Louis in 2017 and the World Championships in Houston in 2018.

### SPORTS

## MICDS Cycling

TEAM MEMBER, CO-CAPTAIN

*Sports Team*

*Mar. 2017 - Present*

- A road cycling team representing MICDS.
- Participate in road cycling races around St. Louis, including Tuesday Night Worlds and the O'Fallon Cup.

## OTHER INTERESTS

- Piano
- Choral Music
- Acting

## Honors & Awards

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May 2015 **Recipient**, MICDS Middle School Chinese Language Award

*St. Louis, MO*

Apr. 2017 **1st Place**, World Wide Technology STEM Student Forum Hackathon

*St. Louis, MO*

Feb. 2018 **3rd Place**, World Wide Technology STEM Student Forum Hackathon

*St. Louis, MO*

Apr. 2018 **3rd Place**, Webster University High School Programming Challenge

*St. Louis, MO*