

# Tieyun (Nick) Zhang

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## HIGHLIGHTS OF QUALIFICATIONS

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- Currently enrolled in the Master of Engineering Program in the Computing and Software department at McMaster University, eligible for a **4-12-month Co-op** starting in the summer of 2023
- Excellent analytical and problem-solving abilities gained through course and lab work as well as previous academic competition experience
- Experience in web development technologies including HTML, CSS, JavaScript, React, Node.js, Express, and MongoDB

## EDUCATION BACKGROUND

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### Master of Engineering - Computing and Software

*Sept. 2022 - Present*

*McMaster University, Hamilton ON*

- Coursework includes Software Design, Intro to Big Data, Data Structures & Algorithms
- Achieved A+ in the both courses in the first term

### Bachelor of Engineering - Automation

*Sept. 2018 - July 2022*

*Zhejiang University, Hangzhou China*

- Achieved a GPA of 3.78/4.0 in total and 3.89/4.0 in the last two years. On the Dean's List for 4 consecutive years
- Relevant coursework includes Computer Organization and Architecture, Object-oriented Programming, Computer Network, Data Structure and Algorithm, Parallel Computing

## PROJECTS

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### Sharify - Online Photo Sharing Web Application

*Nov. 2022 - Dec. 2022*

*Personal Project*

- Independently developed a lightweight photo sharing web application. The application allows users to create their own account or login with social account. Users can upload online or local photos with brief introduction. Users can also interact with other users by upvoting their photos
- Used Bootstrap and React to design the front-end. Ensured the website to be responsive and mobile-friendly
- Used Node.js, Express, and MongoDB to develop the back-end. Implemented user authentication and authorization using Passport.js. Implemented a RESTful API

## EXTRA-CURRICULAR ACTIVITIES

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### Smart Factory Innovation Student Club

*Sept. 2020 - Apr. 2022*

*Zhejiang University, Hangzhou China*

- Independently developed a series of Arduino training courses for the club offering to the students in the university. The course includes the basics of embedded system and Arduino programming, and incorporated plenty of projects to build hands-on skills
- Gave the Arduino lectures to over 100 students in total and received positive feedback

### 19th Zhejiang University Collegiate Programming Contest

*Apr. 2020*

*Zhejiang University, Hangzhou China*

- Attend the training and completed the programming contest, ranked top 5% among the contestant
- Collaborated with a team of 3 to solve 7 problems in 3 hours. As the core member, responsible for the problems in the field of data structure, graph theory and dynamic programming
- Strengthened adaptability & collaboration skills

## SKILLS

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**Programming & Web:** JavaScript, CSS, HTML, C/C++, Java, Python, MATLAB, Assembly

**Tools:** React, Node.js, Express, MongoDB, SQL, Bootstrap, IOT&Embedded Systems