

# Michael V. Dow

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## EDUCATION

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### University of Illinois

*Bachelor of Science, Computer Science*

Urbana-Champaign, IL

Expected May 2021

### Illinois Mathematics and Science Academy

*College Prep Program*

Aurora, IL

June 2017

GPA: 3.64/4.00

## EXPERIENCE

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### CU Transit: Bus and Navigation (Android App)

May 2017-Present

*Developer*

- Developed app to track Champaign-Urbana bus system in real-time using RESTful API
- Downloaded over 900 times with more than 600 daily active users

### Association for Computing Machinery

Urbana-Champaign, IL

*Member*

August 2017-Present

- Improved Android and web development skills through group-based projects
- Contributed to student-run robotics group through programming a vision and autonomous system

### PAC Lab Research Project

Loyola University Chicago

*Student Researcher*

August 2015-May 2016

- Developed Python application to analyze accelerometer data of arbitrary repetitive motions using appropriate libraries such as NumPy, SciPy, and Matplotlib
- Achieved 80.75% accuracy in counting number of repetitions of any general, repetitive movement

## LEADERSHIP AND ACTIVITIES

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### iRobotics

Urbana-Champaign, IL

*Programming Lead*

August 2017-Present

- Led a programming team that uses Arduino's coded in C++ with a computer interface coded in C#
- Collaborated with team to prepare for the Midwestern Robotics Design Competition

### FIRST Robotics

August 2014-May 2017

*Head of Programming*

- Led a programming team of 10 members with varying skill
- Coordinated with other team heads and leadership members to decide on strategy and to ensure all work was completed
- Implemented vision processing system using an on-board computer and multiple cameras using Python
- Developed autonomous programs with imaging and various sensors using Java

### Student Computing Support

August 2016-May 2017

*Residential Team Leader*

- Led and managed residential computing support team to ensure all issues were fixed within 24 hours
- Assisted students with setting up internet, connecting to printers, re-imaging machines, and other issues

## TECHNICAL SKILLS

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**Proficient:** Java, Python, C#

**Familiar with:** HTML/CSS, JavaScript, SQLite