

# Michael Dow

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## Education

### University of Illinois at Urbana-Champaign

B.S. IN COMPUTER SCIENCE

*Urbana-Champaign, IL*

*Expected May 2021*

*GPA: 3.78/4.00*

### Illinois Mathematics and Science Academy

COLLEGE PREP PROGRAM

*Aurora, IL*

*June 2017*

*GPA: 3.64/4.00*

## Experience

### Capital One

SOFTWARE ENGINEER INTERN

*Champaign, IL*

*May 2018 - August 2018*

- Implemented automated data recovery for Elasticsearch service on AWS servers using Python.
- Improved data allocation speed, triggered by new machine instance, on Elasticsearch cluster by 34%.
- Created Ansible playbook for automating service provisioning on Auto Scaling Groups using Amazon Web Services.

### PAC Lab Research Project

STUDENT RESEARCHER

*Loyola University Chicago*

*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

## Extracurricular Activity

### Association for Computing Machinery - WebMonkeys

MEMBER

*Champaign, IL*

*August 2017 - Present*

- Learned about new web technologies and improved web development skills through talks and small projects

### FIRST Robotics

PROGRAMMING LEAD

*Aurora, IL*

*August 2014 - May 2017*

- Coordinated with other 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

## Projects

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

DEVELOPER

*May 2017 - Present*

- Developed app to track Champaign-Urbana bus system in real-time using RESTful API
- Downloaded over 1500 times with more than 1000 daily active users

### Spotify Visualizer

DEVELOPER

*April 2018 - May 2018*

- Created C++ application to visualize music based on BPM and pitch using Spotify's Web API and OpenFrameworks

## Technical Skills

**Proficient** Java, Python, C#, Ansible

**Familiar with** C++, HTML/CSS, JavaScript, SQLite