Michael V. Dow

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EDUCATION

University of Illinois — Urbana-Champaign, IL
Bachelor of Science, Computer Science — Expected May 2021

Illinois Mathematics and Science Academy — Aurora, IL
College Prep Program — June 2017
GPA: 3.64/4.00

EXPERIENCE

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

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

Proficient: Java, Python, C#
Familiar with: HTML/CSS, JavaScript, SQLite