

# Matthew Nicholas Phipps

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## Education

### **Iowa State University, Ames IA**

Bachelor of Science, Computer Engineering

(Expected Graduation May 2021)

Minor in Economics

GPA: 3.19 Cumulative

## Work Experience

### **Jewel Osco Grocery Store - Cashier & Bagger**

(Summer 2014 - Fall 2017)

- ❑ Provided excellent customer service, keeping customers happy and addressing the needs of dissatisfied customers
- ❑ Efficiently bagged groceries to minimize plastic used while keeping groceries safe

### **Shakou Restaurant - Expeditor / Food Runner**

(Summer 2018)

- ❑ Make sure the food goes to the right waiter/waitress, as well as prepared properly
- ❑ Prepare, plate and garnish the deserts for patrons

### **Ebay Store - Sole proprietor**

(Ongoing)

- ❑ Find methods to reduce packaging and shipping fees
- ❑ Ensure my customers are satisfied with the products and service that I provide

## Projects

### **Catching Plagiarists**

(Spring Sem 2015)(High School)

- ❑ Program written in Java that looks at a set of 1200 documents and based on user inputs, determines which documents are plagiarized
- ❑ Program uses an arraylist of hash tables that were made for each specific document and then analyzes the similarity between hashtables

### **LED Cube (6x6x6)**

(Spring Semester 2018)

- ❑ Implemented a circuit using an arduino and shift registers to control LED's on the cube
- ❑ Created program for arduino that took input from a microphone to control what LEDs are powered

**Check out my Github:** <https://github.com/mhipps2017>

## Activities

### **Robotic Exoskeleton - Programing & Electrical Component Managing**

(Ongoing)

- ❑ Programming Arduinos by formulating equations based on sensor inputs
- ❑ Choosing electrical components for Exoskeleton to ensure compatibility and reliability

### **Reiman Gardens - Volunteer**

(Ongoing)

- ❑ Butterfly Wing, making sure patrons follow the rules of the wing
- ❑ Assisted with events hosted by the Gardens

### **Robotics Club (FTC) - Team Captain & Chairman**

(Fall 2013 - Spring

2017)

- ❑ Coordinated the team workflow to remain efficient and complete tasks
- ❑ Soldered electronics and built gear driven mechanisms

## Skills

- ❑ Java, C++, C, HTML, CSS, JavaScript, node.js, SQL, mongodb, Swift, four years of Chinese