

# Thomas McKanna

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## Education

### Missouri University of Science and Technology (GPA 3.9/4.0)

Rolla, MO

B.S. IN COMPUTER SCIENCE

Dec 2020

## Experience

### Boeing

Hazelwood, MO

SOFTWARE ENGINEERING INTERN

Summer 2020

- Coded an ASP.NET Core web application at all levels of the technical stack in preparation for its deployment to production.
- Implemented new features for the web application, such as an in-browser file editor, using C#, HTML, JavaScript, and Oracle SQL.
- Collaborated with a team of interns to research how Azure DevOps could be better utilized by software development teams.

### Mastercard

O'Fallon, MO

CORPORATE SECURITY INTERN

Summer 2019

- Developed a web application with Python, JavaScript, and HTML which automated the deployment and configuration of virtual machines.
- Wrote infrastructure-as-code scripts with Terraform to deploy virtual networks to a private cloud.
- Collaborated with a team of interns to create an interactive computer security presentation showcasing live malware attacks.

## Extracurricular Activity

### ACM Competitive Programming

Aug. 2020 - Present

PRESIDENT

- Headed a group of 20 students who were interested in improving their algorithmic problem-solving skills.
- Organized a university-wide programming competition, including the cloud deployment of a judging system.
- Gave technical talks about competitive programming, algorithms, and data structures during meetings.
- Spearheaded the redesign of the club's website, including server configuration and deployment to the cloud.

### Multirotor Robot Student Design Team

Aug. 2018 - May 2020

SOFTWARE DEVELOPER

- Collaborated with a team of 30 students from a variety of engineering and computer science backgrounds to ensure our drone was prepared for the IARC drone competition.
- Implemented movement and collision avoidance logic for an autonomous drone using the DroneKit API for Python.
- Regularly presented technical content related to the progress of software projects to the team.
- Pioneered the team's transition from an older flight simulation platform to Microsoft's AirSim

## Projects

### The Rolla Mission Check-In App

Spring 2020

SENIOR CAPSTONE PROJECT

- Led a team of five computer science students in creating a mobile app that assisted a homeless shelter with registering and checking-in guests.
- Engineered an MVVM architecture for the Android mobile app.
- Designed and implemented a REST API using Django which allowed registration and check-in data to be stored and retrieved.

### 'Arrived' Mobile App

Fall 2019

PERSONAL PROJECT

- Developed an app that allows an Android device to automatically send a notification to selected contacts upon arriving at a destination.
- Utilized a background service along with geofencing APIs to detect when the user moved within a mile of their destination.
- Incorporated the Google Maps API to assist users in selecting their destination.