

# Thomas McKanna

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## Education

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

B.S. IN COMPUTER SCIENCE

Rolla, MO

Dec 2020

## Experience

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### Boeing

Hazelwood, MO

SOFTWARE ENGINEERING INTERN

Summer 2020

- Debugged an ASP.NET 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 and JavaScript which automated the deployment and configuration of virtual machines.
- Wrote infrastructure-as-code scripts to deploy complex 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

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### ACM-Comp

Aug. 2018 - Present

CHAIR AND WEBSITE ADMINISTRATOR

- In the Fall, I will be leading this student organization that is dedicated to competitive programming.
- Trained with a team of three students for ICPC, performing the best out of all Missouri S&T teams for two years in a row.
- Managed and contributed to educational content used on the organization's website.
- Deployed the organization's website using DigitalOcean's cloud platform.

### Multirotor Robot Student Design Team

Aug. 2018 - May 2020

SOFTWARE DEVELOPER

- Collaborated with a team of 20 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.
- Spearheaded the team's transition from an older flight simulation platform to Microsoft's AirSim

## Projects

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### The Rolla Mission Check-In App

Spring 2020

SENIOR CAPSTONE PROJECT

- Led a team of 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 for submitted registration and check-in data using Django.

### '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.