

# Nick McCullough

(319)777-6082 | [nickmcc@iastate.edu](mailto:nickmcc@iastate.edu) | [linkedin.com/in/mccnick](https://www.linkedin.com/in/mccnick) | [github.com/mccnick](https://github.com/mccnick) | [mccnick.github.io](https://mccnick.github.io)

## EDUCATION

### Iowa State University

*Bachelor of Science, Software Engineering*

Ames, IA

*Aug. 2021 – May 2025*

## TECHNICAL SKILLS

**Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Digital Logic, Linear Algebra

**Programming Languages:** Java, Python, JavaScript, HTML5, CSS3, C, C++, Swift, Perl, SQL, MATLAB

**Frameworks/Libraries:** React, React Native, NodeJS, ExpressJS, ThreeJS, Flask, JUnit, Angular, Django, Flutter

**Tools:** Git, GitHub, Eclipse, IntelliJ, VS Code, Visual Studio, Docker, Google Cloud Platform, AWS

## SOFTWARE ENGINEERING CERTIFICATIONS - VIRTUAL EXPERIENCE PROGRAM ON FORAGE

**JPMorgan Chase:** Implemented changes to existing system in Java, unit testing, pull request on GitHub - June 2023

**Goldman Sachs:** Cyber security, password hashing, analyzed leaked database risk, offered improvements - June 2023

**Wells Fargo:** Designed financial data model (ERD), implemented model in Java, pull request on GitHub - June 2023

## PROFESSIONAL EXPERIENCE

### John Deere

*Software Engineer Intern*

Ames, IA

*July 2022 – Apr 2023*

- Collaborated with senior engineers to develop, test, and maintain vehicle software, focusing on GPS guidance.
- Assisted in the development and testing of internal Java software solutions, participated in team code reviews.
- Developed 100+ Python and MATLAB scripts for automated data visualization in weekly team presentations.
- Demonstrated initiative by independently learning the vehicle software UI, C/C++ fundamentals and testing.
- Skills: Java, C/C++, Python, MATLAB, git, GPS vehicle software, automation, embedded systems exposure.

### Wells Fargo

*Finance Specialist - Account Resolutions 3*

West Des Moines, IA

*July 2020 – May 2022*

- Provided customer service and partnered with customers to improve their situation. Offered COVID assistance.
- Negotiated with customers daily for terms on repayment to help them keep their account in good standing.

### Toyota Financial Services

*Finance Specialist - Specialty Legal*

Cedar Rapids, IA

*Feb 2013 - Dec 2019*

- Managed \$3 million portfolio of 150+ accounts, ensuring daily operations met strict 3-day compliance regulations.
- Initiated complex repossession processes from tow yards. Negotiated fees and customer payments or collateral.

## SOFTWARE ENGINEERING PROJECTS

### Ames Classroom Finder App (in progress) | *React Native, JavaScript, Firebase*

Apr 2023 – Present

- Currently developing a mobile application to enhance user navigation across Iowa State University's campus.
- Designed to assist students, athletes, faculty and guests in locating thousands of classrooms in over 180 buildings.
- Structuring the app using React Native and JavaScript, and employing Firebase for user authentication.
- Conducting manual research of all building information and location data via ISU facilities and planning website.
- Integrating Google Maps API to display campus map, location and direction from user's current location.

### Aerospace Density Altitude Calculator | *Python, MATLAB*

March 2022

- Developed an interactive application using MATLAB to calculate aircraft weight and balance requirements.
- Integrated local airport API using Python to display live density altitude data for comprehensive flight checks.

## TEAM LEADERSHIP AND AEROSPACE ENGINEERING EXPERIENCE

### Cyclone Rocketry Student Club | *Avionics Subteam, Spaceshot Committee*

Aug 2021 – May 2023

- Optimize rocket avionics GPS trajectory with C++ and multiple sensors on flight board, analyze data post-flight.
- Supported all sub-teams and leadership. Lay ongoing foundation for future students to reach the Karman line.
- May 2022: Successfully managed team of four students to research and design Lockheed SR-71A Blackbird model.
- Dec 2021: Successfully managed team of seven students to design, build and manufacture an aircraft from scratch.