

# Zachary Collins

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## Education

**University of Wisconsin – Madison**

Expected May 2024

*B.S. Computer Science, Certificate: Data Science*

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Machine Organization & Programming, Mobile App Development, Software Engineering, UX/UI, OOP, Database Management

## Skills

- Java, Python, C, C#, R, GAMS, SQL, Javascript, Typescript, HTML, CSS
- Agile, Angular, React, React-Native, Expo, PWA, MVC, Spring-boot, Git, Docker, Azure, JIRA, Agile

## Work Experience

**Fullstack Software Engineer Intern**, Brady Corp - Milwaukee, WI

June 2023 - present

- Developed a new frontend page for bulk document link generation and debugged backend queries to reduce bulk document link generation time from 2 minutes to less than 10 seconds
- Improved permissions feature in Link360 by creating several test users with different permissions and fixing inconsistencies where users could access permissions or change their own permissions when they shouldn't
- Created New Relic NRQL queries for the team to compare mobile vs desktop usage
- Migrated the PWA to the latest Angular version as well as other necessary libraries to improve security

**Frontend Software Engineer Intern**, Brady Corp - Milwaukee, WI

June 2022 - June 2023

- Integrated angular components into MVC view to create a seamless document creation experience for users
- Tested angular components by developing UI tests as well as unit tests to verify safety of product
- QA tested other developer's stories when others weren't available in order to help push consistent releases
- Contributed important details about how data structures were used in the beta's frontend when team was designing the database for the official release

## Projects

**Java Educator**

github.com/ztcollins/Educator

- Organized meetings and led the development of a full stack project with five other students using Agile methodology to create a tool for students learning to program in Java
- Developed CI pipeline that automatically runs unit tests with gitlab runners every time code was pushed
- Created & maintained documentation to help create shared knowledge for all developers since the project was split by developers working on React frontend, Java/Spring-boot backend, and MySQL database

**Airline Reviews Analysis**

github.com/ztcollins/airlines

- Developed machine learning algorithm in GAMS in order to determine which amenities in airlines impact how a reviewer will score a particular airline by training on over 5000+ real reviews
- Organized the project to run from a Jupyter notebook, using Matplotlib to display results

## Community Involvement

**Student Chromebook Technician**, Ronald Reagan HS - Milwaukee, WI

Sep 2019 - Mar 2020

**Website Developer**, Parkside School - Milwaukee, WI

Oct 2018 - Jan 2019