

Zachary Collins

ztcollins02@gmail.com | ztcollins.vercel.app | github.com/ztcollins

Skills

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

Work Experience

Fullstack Software Engineer Intern, Brady Corp - Milwaukee, WI June 2023 - present

- Improved document view's generation method by refactoring from PDF generation to SVG generation in order to reduce document load times from over 10 seconds to less than 1 second
- Communicated closely with product manager to develop a new page (MVC / .NET) for document link generation and reduced previous bulk document link generation time for users by 80%
- Created several New Relic NRQL queries for the team to compare mobile and desktop metrics
- Migrated the PWA from Angular 7 to the latest Angular version and updated all other libraries being used

Frontend Software Engineer Intern, Brady Corp - Milwaukee, WI June 2022 - June 2023

- Integrated angular components into MVC view to facilitate a seamless document creation experience
- Tested angular components by developing UI tests as well as unit tests to verify safety of product
- Contributed important details about how data was used in the beta's frontend when team was designing the database for an upcoming project

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

Education

University of Wisconsin – Madison Expected May 2024

B.S. Computer Science, Certificate: Data Science

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Machine Organization and Programming, Mobile App Development, Software Engineering, User Experience/User Interfaces, Object-Oriented Programming, Databases