

# Austin Franzen

arfranz.github.io

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Minneapolis, MN

## EDUCATION

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- **University of Minnesota** Minneapolis, MN  
*B.S. Computer Science; GPA: 3.54, Dean's List: Spring '21, Spring '22* *September 2020 - December 2023*
- **Harry D. Jacobs High School** Algonquin, IL  
*ACT: Top 5%; State Scholar* *August 2016 - May 2020*

## EXPERIENCE

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- **U.S. Bank** Minneapolis, MN  
*Software Engineer Intern* *June 2023 - August 2023*  
I worked in the Document Custody Services department with multiple full-time developers and collaborated with many high-value business lines. Tasks included creating UML documentation for an automation process that resulted in improved transparency and efficiency. I also helped to write scripts that aimed to correct any errors inputted by business line users, which alleviated hundreds of incorrect date inputs. Throughout the summer, I worked in an agile environment and participated in daily stand-ups.
- **Endries International** Sycamore, IL  
*Quality Analyst Intern* *June 2022 - August 2022*  
I worked to inspect hundreds of parts, audited incoming and outgoing shipments for quality and correctness, and designed a program in Python to assist in LAB color readings. I worked closely with multiple department leads and the company president to ensure quality standards were met.
- **University of Minnesota** Minneapolis, MN  
*Computer Science Teaching Assistant* *September 2021 - Present*  
Working with a select team of graduate and undergraduate students to create rubrics for exams, hold office hours, and create labs for a class of over 200+ students. Completed an additional training course that allowed me to gain skills in new teaching methods, communication, and leadership techniques.

## PROJECTS

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- **Full Stack Course Project:** I created a personal website that required both front-end and back-end development. The website utilized HTML5, CSS, and Javascript to display information to the user. The website further utilized Node.JS and Express for server deployment and SQL for protecting and storing data. Resulted in a full-stack application that could be accessed on any machine.
- **C++ Course Project:** I and another student implemented front and back-end additions to a "virtual drone delivery system" that consisted of hundreds of classes. We utilized Decorator and Factory patterns in order to allow the user to better choose their desired destination and brought battery logic to all drones within the program. Written in C++ and HTML.
- **Discrete Structures Course Project:** I worked with a Teacher's Assistant to create a new course project for use in a Discrete Structures class. I was responsible for leading the project. I communicated with the professor to best meet the needs of the class and achieve strict deadlines. The updated project allowed students to better visualize DFS and BFS search algorithms by integrating the Java.AWT package into the project.

## PROGRAMMING SKILLS

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- **Languages:** Java, Python, C, C++, SQL, OCAML, JavaScript, HTML, CSS
- **Technologies:** VSCode, Docker, IntelliJ, Git, Node.JS, Express, AJAX, emBTRUST, Azure

## ACTIVITIES

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- **Clubs and Societies:** Google Developers Club, Association for Computing Machinery, National Honor Society