

Tyler Cushing

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EDUCATION

University of Illinois at Urbana Champaign

Bachelor of Arts in Computer Science and Mathematics

Champaign, IL

Aug. 2021 – May 2025

Bloomington High School

High School Diploma (Focus on Math and Computer Science) - Valedictorian

Bloomington, IL

Aug. 2017 – May 2021

EXPERIENCE

Intro to Computer Science II Undergraduate Course Assistant

University of Illinois at Urbana-Champaign Computer Science Department

August 2022 – Present

Champaign, IL

- Developed a grade management system with JavaScript that calculated class grades for the entire course
- Helped to develop and draft the prompts for course material that explained foundational CS concepts
- Hosted and coordinated multiple office hours every week

Discrete Structures Undergraduate Course Assistant

University of Illinois at Urbana-Champaign Computer Science Department

January 2023 – Present

Champaign, IL

- Created tutoring approach that best fit each students' learning style
- Assess and troubleshoot conceptual misunderstandings brought by students
- Led large gatherings of the class where new material was learned and practiced

Undergraduate Course Developer

University of Illinois at Urbana-Champaign Computer Science Department

August 2022 – Present

Champaign, IL

- Developed a grade management system adopted by the Discrete Structures course
- Helped design course materials for the Intro to Computer Science I course; created video explanations, homework walkthroughs and beyond
- Worked on Intro to Computer Science II course development team to help brainstorm new class assignments

Server

Cracker Barrel Old Country Store

August 2020 – May 2022

Champaign/Bloomington, IL

- Serving food and beverages while maintaining high quality formal table service to over 100+ customers daily.
- Organized large parties reservations and special requests efficiently and accurately.
- Resolved complaints quickly and efficiently while keeping the customer's best interests in mind.

PROJECTS

Grade Management System | *SQL, Python, C++, JavaScript*

December 2022 – Present

- Noticed current grade management system used by University didn't calculate overall grade
- Modified the in-place grade system to grant students higher permissions
- Worked with the SQL database used by in-place grade system to support these modified permissions
- Distributed the finished tool and created a website for leaving feedback

React Grade Management System Interface | *JavaScript, React.js, Node.js, Git*

April 2023 – Present

- Developed a user interface that worked with the aforementioned grade calculation tool
- Published this newly improved interface to the Discrete Structures class, which amassed over 100 downloads
- Implemented continuous delivery using React's built in libraries to build the interface upon new a release
- Collaborated with students to constantly integrate feedback and work with new feature suggestions

SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, HTML/CSS, C#

Development Frameworks: React, Node.js, Flask

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Development Libraries: pandas, NumPy, Matplotlib

Soft Skills: Leadership, Customer Service, Point-of-Sale Systems, Time Management, Adaptable