

# Ben Eger

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18844 Stockton Drive, Noblesville, IN 46062

## EDUCATION

**Ball State University**, Muncie, IN

Bachelor of Science in Computer Science, May 2022      GPA: 3.8

*Selected Coursework:* Software Engineering Capstone, Data Structures (Java), Algorithms (Python), Web Applications, Database Design, Computer Architecture, Natural Language Processing

## SKILLS

*Coding:* Python, Java, C#, 4D, JavaScript, Haskell, PHP, SQL, MIPS (assembly), HTML, CSS

*Tools/Frameworks:* Git, Docker, ASP.NET Core, Vue.js, MySQL, SQL Server, MongoDB

## EXPERIENCE

**Research Assistant** (August 2021-February 2022)

*Ball State University*, Muncie, IN

- Implemented and documented a unit testing approach for tightly coupled modules in a hydrological data modeling software (part of the CUAHSI CyberWater project funded by the NSF)
- Assisted Dr. Lin in automating the software testing builds with a Jenkins Linux server connected to the Bitbucket repository

**Application Development Internship** (May 2021-August 2021)

*Sweetwater*, Fort Wayne, IN

- Communicated with internal software end users through face to face, Slack, and phone calls to investigate user-reported bugs
- Engineered and tested bug patches for the database management system

## PROJECTS

**Secure Chat System** (September 2021-Present) – an online chat system for a local company

- Lead a team of 4 capstone students to develop a Vue.js web app and ASP.NET Core API that allows clients to send instant messages to other clients through SignalR connections to the server
- Engineered a SignalR Hub to handle remote procedure calls from connected clients and route the instant messages appropriately
- Developed a frontend feature for switching back and forth between multiple conversations
- Designed the table structure with MS Entity Framework Core
- Developed API endpoints for retrieving conversation history from SQL Server

**Contacts Database Application** (June 2021) – a 4D database application for managing contacts

- Constructed a relational database for storing contact data
- Designed a desktop application to view, add, update, and delete contacts
- Presented the application design and features to Sweetwater senior developers