

# Chelsea Verheyen

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## EXPERIENCE

### Caterpillar Inc.

July 2023 — Present

#### Software Engineer

Chicago, IL

- Developed and maintained a mission-critical frontend application using React with TypeScript on a team of 12 developers, contributing over 70,000 lines of code.
- Sole frontend developer for a troubleshooting application using React with TypeScript, leveraging AI tools and GitHub Copilot to streamline development, enhance code quality, and accelerate feature delivery.
- Diagnosed and resolved over 30 bugs and accessibility issues, improving user experience and accessibility standards.
- Integrated external APIs using Axios to fetch data and enable communication between frontend and backend systems.
- Utilized Jest & Vitest testing frameworks for unit and integration testing, achieving over 90% code coverage.
- Collaborated in an Agile manner with cross-functional teams including backend developers, designers, and product managers to deliver high-quality software solutions that meet strict deadlines and performance targets.

### West Bend Mutual Insurance

May 2022 — May 2023

#### Software Developer Intern

Madison, WI

- Created Azure Logic App to automate saving agency information in company's database, which reduced processing time for internal teams by approximately 4 hours per month.
- Developed integration service using C# to exchange claims data with a third-party platform.
- Wrote over 50 underwriting eligibility rules and associated unit tests using Gherkin for a new insurance product.

### University of Wisconsin — Madison

August 2022 — May 2023

#### Peer Mentor

Madison, WI

- Held weekly office hours to assist students with projects and homework in CS540: Introduction to Artificial Intelligence.
- Monitored online class forum to answer 200+ students' questions and clarify concepts relating to AI.

## EDUCATION

### University of Wisconsin — Madison

August 2020 — May 2023

#### B.S. in Computer Science and Data Science

Madison, WI

- 3.9 GPA, made Dean's List every semester.
- *Relevant Coursework:* Algorithms, Databases, Operating Systems, Artificial Intelligence, Computer Engineering, Machine Optimization and Programming, Programming 3, Data Science Programming 2, Data Modeling 2, Computer Graphics, Multivariable Calculus with Analytic Geometry, Discrete Mathematics, Linear Algebra, Data & Algorithms: Ethics & Policy, and Software Engineering.

## PROJECTS

### bounce.

November 2022 — March 2023

- Independently designed & implemented an iOS game using Swift for game mechanics, UI elements, and gameplay logic.
- Integrated with Google AdMob for monetization and Game Center for leaderboards and achievements.
- Published to the App Store with hundreds of downloads globally and an overall rating of 4.8/5.

## SKILLS

**Languages:** TypeScript, JavaScript, HTML, CSS, Java, Python, C, C#, Swift, SQL, R.

**Frameworks & Tools:** React, Node.js, Redux, Jest, Vitest, Spring Boot, Django, Pandas, TensorFlow, .NET, Amazon Web Services, Azure, Agile / Scrum Methodologies.

## AWARDS & CERTIFICATES

AWS Certified Developer — Associate

September 2024

Illinois State Seal of Biliteracy in German

December 2019

National Merit Finalist

October 2019