

# Cade Rousseau

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## SUMMARY

B.S. Software Engineering student at MSOE, minoring in Data Science, with hands-on experience in full-stack development, data modeling, and collaborative project work. I am actively seeking an internship to strengthen software engineering, debugging, and high-performance computing skills. Currently balancing 20+ hours/week at a fast-paced job with strong academic performance (Dean's List, 3 semesters). Adaptable, driven, and eager to learn new tools, frameworks, and technologies. Proficient in JavaScript, Java, Python, C++, React, SQL, MongoDB, and AWS, with experience in UML modeling, design patterns, and UI/UX accessibility standards.

## EDUCATION

**B.S. Software Engineering**, Minor in Data Science | Milwaukee School of Engineering | GPA: 3.5 | May 2027

## INTERSHIP EXPERIENCE

**Software Engineering Intern** – GE Healthcare (via Codeworks)

September 2025 – Present | Waukesha, WI

- Develop and test CT reconstruction software in C++/Linux.
- Explore GPU (CUDA) and multicore optimizations for performance gains.
- Collaborate with cross-functional teams to translate algorithms into product software.
- Apply OOP, design patterns, and math skills to improve code reliability and scalability.

## PROJECT EXPERIENCE

- **ROSIE Dashboard / Visualizer (Group of 4) – In Progress**
  - Inheriting and extending a supercomputer metrics dashboard and visualizer originally developed by previous students
  - Developing a React-based web client to display CPU, GPU, memory and network usage in real time
  - Working with a Ruby server (Sinatra, Puma) to sanitize, aggregate, and serve cluster data
  - Using Docker Compose for development and implementing tests with Jest and Minitest
- **Personal Portfolio**
  - Developing a responsive and dynamic personal portfolio website using TypeScript, React, and Tailwind CSS to showcase projects and skills.
  - Implementing modern design principles with Tailwind CSS for a clean and professional aesthetic, emphasizing usability and performance.
  - Utilizing React components and TypeScript for type safety and maintainable code architecture.
  - Hosted and deployed through AWS Amplify for efficient front-end delivery
- **Wordle Game (Group of 5)**
  - Developed a Wordle-inspired game with Java and JavaFX, including features for word guessing, feedback, and validation.
  - Built a user-friendly graphical interface integrated with backend logic.
  - Gained team collaboration experience using Scrum and improved version control skills with Git.
- **Travel Dataset Model Evaluation (Group of 2)**
  - Analyzed a dataset with 100,000 records using supervised (KNN, Logistic Regression) and unsupervised (K-Means) models to derive meaningful insights.
  - Evaluated model accuracy, tested hypotheses, and documented findings in a comprehensive report.
  - Strengthened skills in data analysis, model training, and statistical evaluation using Pandas, NumPy, and other libraries.

## **TECHNICAL SKILLS**

- **Languages/Frameworks**
  - JavaScript, HTML, CSS, TypeScript, Java, Python, C/C++, React, JavaFX, REST APIs, SQL
- **Databases**
  - MongoDB, Relational Databases (SQL)
- **Tools/Tech:**
  - AWS (Amplify), Git/GitHub, Agile/Scrum, Visual Studio Code, UML Modeling, Design Patterns
- **Libraries:**
  - Pandas, NumPy, Scikit-learn
- **Concepts:**
  - UI/UX Principles, Web Accessibility Standards, Debugging, Version Control
- **Certifications:**
  - Fundamentals of Deep Learning – NVIDIA DLI

## **LEADERSHIP | CO-CURRICULAR INVOLVEMENT | COMMUNITY SERVICE**

**Cadet** | Army ROTC | January 2024 – December 2024 | 20 hrs. per wk.

**Member** | Society of Software Engineers | | August 2023 - Present| 1 hrs. per wk.

**Member** | AI Club| August 2023 - Present | 2 hrs. per wk.

**Member** | Billiards Club | | January 2024 - Present| 1 hrs. per wk.

**Scout** | Boy Scouts | June 2015 - March 2023 | 3 hrs. per wk.

**Volunteer** | St. Paul Catholic Church | June 2018 - August 2023 | 1 hrs. per wk.

## **WORK HISTORY**

**Worker** | MSOE Kern Center | September 2025 – Present | 10 hrs. per wk.

**Cook** | Raised Grain Brewing Co. | June 2022 – September 2025 | 40 hrs. per wk.

**Cashier** | Walmart | August 2021 - March 2022 | 15 hrs. per wk.

## **INTERESTS**

History | Weightlifting | Finance | Skiing | Reading