

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