Riggen Snyder

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[Website](#)

EDUCATION

UNIVERSITY OF IOWA
B.S.E. in Computer Science and Engineering, Minor in Mathematics   Aug 2022 - Dec 2026

SUMMARY

Senior in Computer Science and Engineering with experience in Python, Java, SQL, Git, and more. Skilled at troubleshooting, debugging, and collaborating with cross-functional teams. Strong foundation in databases and application logic, combined with leadership and teamwork experience. Seeking a software engineering internship to apply technical skills and leadership in a fast-paced environment.

TECHNICAL SKILLS

- **Languages & Frameworks:** Python, Java, C++, Ruby, Rails
- **Databases:** MySQL, JDBC, SQL (queries, schema design, CRUD operations)
- **Tools:** Git/GitHub/Gitlab, Linux (daily use)
- **Other:** Agile teamwork, collaborative development, software testing

PERSONAL

JEOPARDY GAME
- Built a Jeopardy-style quiz game in Java with a team of 3 during a weekend hackathon
- Designed and implemented the database backed in MySQL, including schema creation, authentication, and point-tracking
- Gained hands-on experience with relational database integration, SQL queries, and secure user authentication

PARTICLE SIMULATION
- Developed a C++ application utilizing OpenGL for particle rendering and simulation.
- Implemented an interactive camera controlled by keyboard and mouse inputs.
- Gained experience in graphical rendering, input handling, and physics-based simulation in a real-time environment

FISHERMAN'S HELPER
- Collaborated on designing and implementing an Arduino-based fishing rod assistant using an LCD and rotary encoder
- Demonstrated teamwork, problem-solving skills, and the ability to apply software logic to real-world hardware systems

EXPERIENCE

LIFETIME
Supervisor   Apr 2022-Aug 2022
- Supervised a team of 10+ lifeguards, creating daily schedules and coordinating daily pool operations
- Served as the first point of contact for emergencies and incidents, ensuring protocols were followed
- Developed strong leadership, communication, and decision-making skills transferable to team projects