

Josh Hager

Rochester, NY

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Education

Case Western Reserve University

Cleveland, OH

- BS in Computer Science, anticipated May 2025
- GPA: 3.95 / 4.00
- Dean's High Honors, all semesters

Skills

Programming Languages: Python | Java | C++ | JavaScript | HTML | CSS

Frameworks: React.js | Express.js | Bootstrap | JUnit | CppUTest | Boost Meta State Machine

Technical Skills: Git | MongoDB | AWS Amplify | Node.js | Linux | Agile/Scrum

Work Experience

L3Harris Technologies

Software Engineer Intern | Rochester, NY | May 2023 - July 2023

- Wrote satellite flight software using **C++**
- Implemented **Hierarchical State Machines** using the Boost Meta State Machine framework
- Utilized unit testing and mocking to improve code coverage and ensure functionality
- Contributed to daily scrums, code reviews, and sprint retrospectives as part of the **Agile/Scrum** process

Mark IV Enterprises

Head Lifeguard | Rochester, NY | June 2020 - August 2022

- Ensured health and safety of pool patrons at apartment complex pool, including chemical maintenance of the pool
- Established and **managed schedule** for 5-7 lifeguards each season

Projects

[RateMyDorm](#)

- Created a full stack web app for reviewing dorms on campus in a team of 6 computer science students
- Allowed users to post textual reviews accompanied by a rating that were viewable by other students
- Developed frontend using **React.js** and **MUI library**, utilized **AWS Amplify** to create backend
- Established **Amazon DynamoDB** database to store review and dorm information for 40 buildings on campus
- Applied Agile and Scrum methodologies to ensure streamlined development

TrayTrack

- Built a full stack **MERN** application for colleges to track reusable takeout trays using **RFID** technology
- Enabled students to scan out/in an RFID-embedded tray after swiping their ID card
- Wrote student-facing device code in **Python** for a **Raspberry Pi** to send tray data to a **MongoDB** database
- Coded an administrator-facing web dashboard to view tray statuses using the MERN stack

Awards and Accolades

Eagle Scout

2021 | Boy Scouts of America

- Completed Eagle Scout Community Service Project
- Led a team to build 4 benches and paint nearby gazebo and bridge at the Henrietta Senior Center
- Worked with town employees and negotiated with vendors to obtain materials, food, and donations