Ethan Townsend

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Education:

Bachelor of Science, Computer Engineering   **May 2025**
Rose-Hulman Institute of Technology, Terre Haute IN   **GPA: 3.47**
Related Courses: Data Structures and Algorithms, Network Communications, Computer Architecture, Continuous Signals and systems, Imbedded system design, SQL Databases

Work Experience:

Grader and Course Development Specialist   **Spring 2023 - Present**
Computer Science and Software Engineering Department
● Leading a team to create and maintain an in-depth guide on Java for students to reference
● Patiently guide and inform students' approach to problem solving
● Lead numerous student groups in creating an event based arcade game

Software Project Lead   **Summer 2022**
Baxter Healthcare, Brooklyn Park, MN
● Designed a python script to parse and reformat text files with limited documentation support
● Evaluated scope of a complex software project, laid groundwork for future work, and created documentation to ease continued development of the software
● Worked with others to update and maintain machines for further research and development

Projects:

Bread Machine   **Spring 2023**
● Deconstructed, reconstructed, and then reconfigured a bread machine with two different microcontrollers. This project also won the best project award as voted by other engineers

Central processing unit (CPU)   **Fall 2023**
● Worked in a team of four to design a memory to memory cpu architecture with a customized assembly language implementation

Achievements and Honors:

Rose-Hulman Merit Scholar   **2021 - Present**
Dean's list   **Winter and Spring 2021 - 22**
Eagle Scout Award recipient   **2020**

Other Activities:

Club Ultimate Frisbee   **2023 - Present**
Esports team Manager   **2021 - 2023**
Concert band member   **2017 - Present**
Subway Council, Director of Subway Updating   **2019 - Present**