**Sk Naimul Islam Nayeem**

Terre Haute, IN | [nayeems@rose-hulman.edu](mailto:nayeems@rose-hulman.edu) | (812) 538-9229 | [LinkedIn](https://www.linkedin.com/in/naimulnayeem) | [Portfolio](https://rhit-nayeems.github.io/)

*Seeking an internship in software development, AI, or data analysis to apply my programming and problem-solving skills while continuously learning and expanding my knowledge*

**Education: Bachelor of Science, Computer Science May 2027**

Rose-Hulman Institute of Technology, Terre Haute, IN

Related Courses:*Software Development, Data Structures and Algorithm Analysis, Object-Oriented Software Development, Web Programming, Systems Programming, Digital Systems, Linear Algebra, Discrete Math, Calculus, Entrepreneurship*

**Skills: Programming Languages:** Python, Java, C, Assembly (ARM)

**Web Development:** HTML, CSS, SCSS, JavaScript, React, Tailwind, Framer Motion

**Tools & Frameworks:** PlantUML, Matplotlib, Maple, Verilog, FPGA, Quartus, GitHub, LoggerPro, Adobe PS, MS Word, Excel, PowerPoint, WordPress, Wix, Flask, Docker, TMDB API

**Technical:** Router installation, Operating systems setup, Phone rooting

**Operating Systems:** Windows, Android, Linux

**Projects:** **MindMatch: AI Movie Recommender [**[Link](https://mind-match-frontend.onrender.com/)**] May 2025-Sep 2025**

* Built a 16-question psychology quiz that maps answers to a normalized feature vector; matched against movie trait vectors to generate recommendations
* Implemented weighted cosine similarity for ranking and a diversification re-rank (MMR) with seeded tie-breaks to avoid repetitive lists
* Shipped REST/recommend API and instrumented logs/tests for deterministic ordering and debuggability
* Developed a responsive React UI with animated match bars, radar chart, and poster carousel; integrated TMDB posters; containerized with Docker

**Editor Trees: Height‑balanced text editor tree (Java) Dec 2024-Jan 2025**

* Designed and implemented a height-balanced tree data structure for a text editor, ensuring efficient operations like insertion, deletion, and retrieval with O (log N) complexity
* Collaborated in pair programming practices to develop and debug algorithms efficiently and accurately, meeting strict performance constraints and unit testing

**Graph Surfing: Graph ADTs & algorithms (Java) Dec 2024-Mar 2024**

* Designed and implemented a graph traversal tool using adjacency lists and BFS/DFS algorithms to simulate “surfing” through connected nodes
* Modeled both directed and undirected graphs, enabling dynamic pathfinding and exploration based on connectivity and user input

**Java Game (Jetpack Joyride spec) Mar 2024-May 2024**

* Developed a Java-based game following the Jetpack Joyride specifications, including hero movement, levels, coins, barriers, laser, and missiles
* Implemented core features such as increasing difficulty, collision detection, and level progression based on pre-configured text files

**Weather Data Analyzer (Python) Nov 2023-Feb 2024**

* Created an interactive Python program to analyze weather data, generating visualizations (line plots, scatter plots, histograms, pie charts) and custom statistics (average, max, and lowest temperature, precipitation etc.) using Matplotlib
* Developed a user-friendly interface for customizable data exploration, allowing users to select weather metrics and ranges, time period, and cities, while ensuring functionality with unit tests

**Work: Rose-Hulman AskRose Homework Help**, Terre Haute, IN **Feb 2024-Jan 2025**

*STEM Tutor & Supervisor*

* Tutored over 20 students every week in grades 6-12 in math, science, and programming
* Communicated complex concepts in STEM using simple, understandable language for students

**Fiverr**, Remote **Jun 2019-Apr 2021**

*Freelancer*

* Designed graphics and developed 20+ websites with WordPress and Wix
* Delivered customized design solutions for clients across diverse industries

**Clubs: Computer Security Club; RISE (Entrepreneurship); Rose‑Hulman eSports Club** **Nov 2023-Sep 2025**

**Leadership: Lambda Chi Alpha Fraternity**, Terre Haute, IN **Nov 2023-Sep 2025**

*Initiated Member & Philanthropy Chair elect*

* Raised 457 lbs of food in a campus-wide drive as Philanthropy Chair; led outreach and logistics